

METEOROLOGICAL OFFICE.

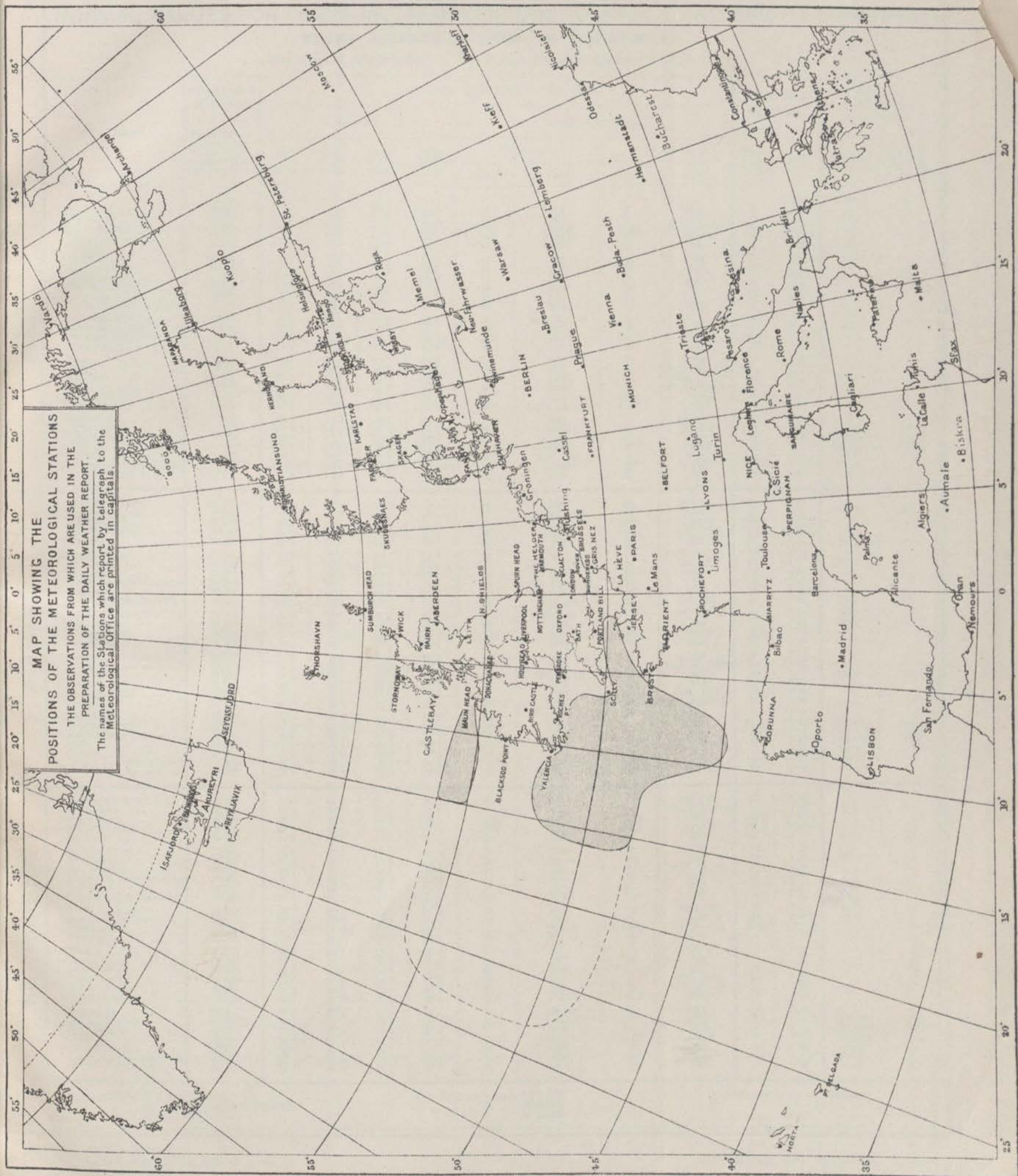
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DAILY WEATHER REPORTS.

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1<sup>ST</sup> JULY TO 31<sup>ST</sup> DECEMBER. 1909.





Note: The shaded portions of the Atlantic and Bay of Biscay indicate the areas from which windless reports were received within 2 hours of the time at which the observations were made. The packed lines indicate the limits of the areas from which they were received within 24 hours.



## DAILY WEATHER REPORT. APPENDIX I.

## NORMAL VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE.

## THIRD QUARTER, JULY TO SEPTEMBER.

(Issued as a Supplement to the Daily Weather Report of July 1st.)

	STATIONS.	PRESSURE. 1871-1905.  8 a.m. Observations (reduced to M.S. Level, but not to Lat. 45°).	AIR TEMPERATURE. 1871-1905.								RAINFALL. 1871-1905.		BRIGHT SUNSHINE. 1881-1905.	
			Means of				Absolute Extremes.				Days with Rain.	Total Fall.	Average Duration.	Per Cent- age of Possible Duration.
			Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maxi- mum.	Daily Mini- mum.	Maximum.		Minimum.					
							Temp.	Year.	Temp.	Year.				
JULY.	Sumburgh Head	Inches.	53° 2	51° 5	57° 4	48° 3	70	1897	37	1888	18	Inches.	Hours.	%
	29° 817	53° 2	51° 5	57° 4	48° 3	70	1897	37	1888	21	2° 40	—	—	
	Stornoway	29° 834	55° 3	53° 5	60° 5	49° 0	78	1894	32	1888	21	3° 03	143° 8	27
	Malin Head	29° 882	56° 2	54° 1	61° 0	53° 3	[75]‡	[1887]‡	[42]‡	[1888, 1902]‡	[20]‡	[2° 89]‡	—	—
	Blackod Point	29° 922	57° 8	55° 3	62° 3	53° 9	[80]‡	[1894]‡	[42]‡	[1898]‡	[21]‡	[3° 02]‡	—	—
	Valencia	29° 968	59° 2	56° 6	64° 0	53° 9	80	1878	42	1898	20	3° 88	153° 5	31
	Roche's Point	29° 967	59° 1	56° 2	65° 7	53° 8	84	1876	45	1888	15	3° 06	—	—
	Birr Castle	29° 947	58° 1	55° 1	66° 5	51° 7	89	1876	37	1889	17	3° 02	139° 0	28
	Donaghadee	29° 915	57° 3	55° 4	63° 4	52° 0	81	1870	40	1883, 1902	18	2° 97	—	—
	Liverpool (Observatory)	29° 937	59° 5	55° 6	66° 1	54° 4	89	1873	44	1877	16	2° 90	—	—
	Holyhead	29° 942	58° 4	56° 1	63° 7	54° 1	85	1901	43	1888	15	2° 59	—	—
	Pembroke (St. Ann's Hd.)	29° 904	58° 2	56° 3	62° 7	55° 0	80	1878	45	1888	15	2° 55	206° 1	42
	Scilly (St. Mary's)	29° 902	60° 8	58° 3	65° 0	56° 6	75	1889, 1901, 02	48	1875	16	2° 38	218° 6	45
	Jersey (St. Aubin's)	29° 021	62° 6	59° 2	68° 8	56° 6	90	1873	45	1902	13	2° 30	249° 8	52
	Portland Bill	[30° 036]†	[60° 7]‡	[58° 4]‡	[68° 1]‡	[56° 2]‡	[70]‡	[1901]‡	[49]‡	[1900]‡	[10]‡	[1° 50]‡	—	—
	Dungeness	29° 973	62° 0	58° 7	67° 1	56° 0	82	1900	40	1890	12	1° 67	—	—
	Wick	29° 845	55° 8	53° 6	61° 7	48° 9	81	1876	30	1886	18	2° 74	—	—
	Nairn	29° 849	56° 9	53° 7	64° 6	50° 1	88	1876	37	1886, 97, 98, 1903	18	2° 77	—	—
	Aberdeen	29° 804	57° 5	53° 8	63° 7	50° 7	88	1876	38	1898, 1903	17	2° 90	163° 1	31
	Leith	29° 878	58° 4	55° 0	66° 7	51° 5	90	1876	41	1881, 88, 92, 1903	16	2° 77	—	—
	North Shields	29° 897	58° 3	55° 2	64° 5	52° 1	85	1876	40	1885	15	2° 66	—	—
Spurn Head	29° 924	59° 7	56° 7	65° 3	55° 1	[84]*	[1881, 1900]*	[44]*	[1888]*	13	1° 82	—	—	
Yarmouth	29° 944	61° 0	57° 7	66° 4	55° 0	87	1881	42	1872, 90	14	2° 65	—	—	
Clacton-on-Sea	[30° 042]†	[61° 0]‡	[57° 2]‡	[67° 4]‡	[55° 0]‡	[82]‡	[1905]‡	[40]‡	[1902]‡	[9]‡	[1° 09]‡	[258° 2]‡	[62]‡	
Nottingham	29° 956	60° 9	57° 1	70° 8	52° 2	92	1876	37	1888	16	2° 60	229° 8	46	
Bath	[30° 024]‡	[61° 7]‡	[57° 6]‡	[72° 1]‡	[54° 5]‡	[91]‡	[1876]‡	[41]‡	[1881]‡	13	2° 67	[222° 6]‡	[45]‡	
Oxford	29° 972	60° 3	56° 7	70° 4	53° 6	90	1876, 1900	39	1888	13	2° 56	202° 9	41	
LONDON (Westminster)	[30° 055]†	[61° 2]†	[56° 0]†	[74° 6]†	[58° 3]†	[81]†	[1905]†	[52]†	[1905]†	[9]†	[1° 15]†	181° 0	37	
Brixton	29° 977	62° 3	57° 8	72° 9	54° 4	85	1881	41	1877	13	2° 38	—	—	
AUGUST.	Sumburgh Head	29° 778	53° 3	51° 6	57° 5	48° 4	69	1880	38	1885, 95	19	3° 17	—	—
	29° 794	54° 7	53° 2	60° 2	49° 0	75	1897, 99	33	1888	21	3° 88	134° 3	29	
	Malin Head	29° 838	56° 3	54° 2	61° 6	53° 7	[80]‡	[1900]‡	[43]‡	[1891]‡	[21]‡	[3° 51]‡	—	—
	Blackod Point	29° 877	58° 0	55° 4	62° 3	54° 0	[78]‡	[1899]‡	[42]‡	[1887, 88]‡	[23]‡	[4° 88]‡	—	—
	Valencia	29° 929	59° 3	56° 8	64° 4	54° 1	81	1899	42	1890	22	5° 14	153° 1	34
	Roche's Point	29° 933	58° 9	56° 4	65° 4	54° 0	80	1880	44	1883, 1903, 04	17	4° 19	—	—
	Birr Castle	29° 916	57° 1	55° 0	65° 8	51° 3	82	1893, 98, 1900	35	1885, 87	18	3° 97	143° 0	32
	Donaghadee	29° 879	56° 8	55° 2	62° 7	52° 2	79	1899	38	1886	19	3° 45	—	—
	Liverpool (Observatory)	29° 906	58° 6	55° 3	65° 5	54° 3	85	1876, 84, 93, 99	44	1885	17	3° 08	—	—
	Holyhead	29° 908	58° 5	56° 4	63° 8	51° 5	83	1893	45	1883	16	3° 23	—	—
	Pembroke (St. Ann's Hd.)	29° 931	58° 7	56° 7	63° 1	55° 7	78	1874, 99	47	1885, 88	16	3° 06	193° 5	43
	Scilly (St. Mary's)	29° 962	61° 0	58° 8	65° 2	57° 1	75	1893, 99	50	1885, 90, 95	17	2° 83	228° 4	59
	Jersey (St. Aubin's)	29° 938	63° 1	59° 7	69° 0	57° 3	89	1893	45	1890	15	2° 54	243° 0	55
	Portland Bill	[29° 973]‡	[58° 8]‡	[57° 4]‡	[65° 3]‡	[56° 0]‡	[78]‡	[1901]‡	[40]‡	[1904]‡	[15]‡	[2° 72]‡	—	—
	Dungeness	29° 954	62° 0	58° 9	67° 5	56° 5	82	1904	39	1890	13	1° 98	—	—
	Wick	29° 809	55° 3	53° 3	61° 2	48° 5	85	1893	30	1896	19	2° 74	—	—
	Nairn	29° 815	55° 7	53° 0	63° 8	49° 6	80	1896	33	1885, 91, 1904	19	2° 65	—	—
	Aberdeen	29° 832	56° 5	53° 3	62° 9	50° 0	81	1880, 82, 99	33	1885	18	3° 08	152° 7	33
	Leith	29° 846	58° 2	54° 5	66° 0	51° 3	85	1893	37	1874	17	2° 89	—	—
	North Shields	29° 889	57° 2	54° 5	64° 0	51° 6	83	1893	39	1892, 1902	16	2° 84	—	—
	Spurn Head	29° 904	59° 0	56° 7	64° 8	54° 9	[87]*	[1893]*	[46]*	[1887, 90, 1900, 2]*	14	2° 06	—	—
Yarmouth	29° 926	60° 5	57° 4	66° 2	54° 7	85	1893	41	1902	14	2° 43	—	—	
Clacton-on-Sea	[29° 954]†	[61° 7]‡	[57° 8]‡	[67° 5]‡	[54° 8]‡	[79]‡	[1901]‡	[44]‡	[1902]‡	[14]‡	[2° 13]‡	[216° 0]‡	[49]‡	
Nottingham	29° 933	58° 8	55° 9	69° 0	51° 5	94	1876	37	1876	17	2° 61	197° 1	44	
Bath	[29° 955]‡	[58° 8]‡	[55° 6]‡	[65° 5]‡	[52° 3]‡	[92]‡	[1876]‡	[40]‡	[1877, 1904]‡	14	2° 87	[188° 7]‡	[42]‡	
Oxford	29° 954	58° 8	53° 9	69° 2	52° 9	90	1876	39	1892	14	2° 38	184° 9	42	
LONDON (Westminster)	[29° 981]†	[60° 1]†	[56° 2]†	[68° 3]†	[54° 3]†	[74]†	[1905]†	[48]†	[1905]†	[15]†	[2° 51]†	168° 0	38	
Brixton	29° 961	60° 9	57° 2	71° 8	53° 6	96	1876	39	1887, 90	14	2° 39	—	—	
SEPTEMBER.	Sumburgh Head	29° 800	50° 8	49° 1	54° 9	46° 3	69	1898	34	1887, 88	20	3° 32	—	—
	29° 816	51° 4	50° 1	57° 1	45° 8	72	1898	32	1871, 75, 85, 1904	21	4° 08	114° 1	30	
	Malin Head	29° 866	53° 7	51° 5	58° 6	51° 0	[78]‡	[1898]‡	[38]‡	[1880]‡	[19]‡	[2° 05]‡	—	—
	Blackod Point	29° 902	55° 4	52° 9	59° 7	51° 5	[78]‡	[1898]‡	[39]‡	[1899]‡	[21]‡	[4° 20]‡	—	—
	Valencia	29° 956	56° 4	54° 0	61° 8	51° 4	79	1898	35	1899	20	4° 50	129° 6	35
	Roche's Point	29° 964	55° 8	53° 7	61° 8	51° 3	74	1880	39	1893	15	3° 52	—	—
	Birr Castle	29° 947	52° 8	51° 0	61° 8	47° 3	79	1880, 98	29	1899	17	2° 76	127° 9	34
	Donaghadee	29° 918	53° 7	52° 4	60° 1	49° 4	74	1898	36	1893, 94, 99	17	2° 84	—	—
	Liverpool (Observatory)	29° 950	54° 7	52° 0	61° 4	50° 8	82	1880	39	1885	17	2° 96	—	—
	Holyhead	29° 943	55° 9	53° 7	60° 8	52° 2	78	1880	42	1903	16	2° 96	—	—
	Pembroke (St. Ann's Hd.)	29° 962	56° 3	54° 1	60° 5	53° 1	74	1895	40	1885	16	3° 10	148° 9	40
	Scilly (St. Mary's)	29° 979	58° 7	56° 5	62° 3	54° 9	73	1899	44	1885, 88	17	3° 03	169° 7	45
	Jersey (St. Aubin's)	29° 009	60° 2	57° 0	65° 9	54° 9	86	1895	41	1891	16	2° 92	182° 1	49
	Portland Bill	[30° 029]‡	[57° 2]‡	[54° 8]‡	[62° 9]‡	[53° 6]‡	[80]‡	[1900]‡	[43]‡	[1902, 03]‡	[13]‡	[2° 26]‡	—	—
	Dungeness	29° 985	57° 9	55° 5	64° 1	52° 9	78	1898, 99	32	1885	14	2° 30	—	—
	Wick	29° 833	52° 1	50° 3	58° 0	45° 8	78	1898	29	1885, 87	19	2° 59	—	—
	Nairn	29° 846	51° 7	49° 4	60° 0	45° 8	83	1898	25	1892	17	2° 37	—	—
	Aberdeen	29° 870	52° 5	50° 0	59° 3	46° 7	81							



# DAILY WEATHER REPORT. APPENDIX I.

## NORMAL VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE.

### FOURTH QUARTER, OCTOBER TO DECEMBER.

(Issued as a Supplement to the Daily Weather Report of October 1st.)

	STATIONS.	PRESSURE. 1871-1905.  8 a.m. Observations (reduced to M.S. Level, but not to Lat. 45°).	AIR TEMPERATURE. 1871-1905.								RAINFALL. 1871-1905.		BRIGHT SUNSHINE. 1881-1905.	
			Means of				Absolute Extremes.				Days with Rain.	Total Fall.	Average Duration.	Per Centage of Possible Duration.
			Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum.		Minimum.					
							Temp.	Year.	Temp.	Year.				
OCTOBER.	Sumburgh Head.....	Inches. 29.721	45.9	44.2	49.7	41.7	61	1898	26	1875	25	Inches. 4.38	Hours. 84.3	% 27
	Stornoway.....	29.752	45.4	44.3	51.3	40.3	70	1898	26	1880	24	4.69	—	—
	Malin Head.....	29.804	48.4	46.4	52.6	45.6	[69]	[1898]	[32]	[1892]	[22]	[3.22]	—	—
	Blackod Point.....	29.853	49.7	48.9	54.2	45.9	[70]	[1898]	[29]	[1905]	[23]	[5.13]	—	—
	Valencia.....	29.891	50.9	48.7	56.4	46.2	69	1898	28	1892	22	5.48	102.7	32
	Roche's Point.....	29.893	50.1	48.3	55.8	46.1	65	1880, 84, 86	32	1881	17	4.17	—	—
	Birr Castle.....	29.887	45.5	44.1	54.7	40.6	69	1898	22	1890, 1905	18	2.93	98.0	30
	Donaghadee.....	29.846	47.8	46.4	53.8	43.6	66	1898	21	1892	19	2.97	—	—
	Liverpool (Observatory).....	29.878	47.8	45.7	53.8	44.6	72	1898	27	1895	19	3.54	—	—
	Holyhead.....	29.847	50.3	48.2	54.7	46.9	71	1898	32	1892	20	4.33	—	—
	Pembroke (St. Ann's Hd.).....	29.885	51.3	49.3	55.1	48.0	66	1872, 86	33	1895	20	4.02	103.6	32
	Scilly (St. Mary's).....	29.903	53.9	51.7	57.0	50.1	69	1895	38	1895, 96	21	3.76	115.4	35
	Jersey (St. Aubin's).....	29.935	53.6	50.9	58.7	49.0	73	1876, 98, 1900	33	1887	20	4.52	126.0	38
	Portland Bill.....	[29.961]	[52.4]	[49.8]	[57.1]	[48.5]	[85]	[1901]	[35]	[1905]	[17]	[3.06]	—	—
	Dungeness.....	29.913	50.4	48.6	56.7	46.0	70	1886	23	1890	16	3.24	—	—
	Wick.....	29.754	46.0	44.4	51.9	40.4	73	1898	22	1885	21	3.23	—	—
	Nairn.....	29.774	44.6	42.8	52.4	39.6	72	1898	19	1896	19	2.47	—	—
	Aberdeen.....	29.793	45.6	43.6	52.5	41.2	74	1898	25	1880	20	2.94	98.6	31
	Leith.....	29.816	46.6	44.6	54.7	41.6	70	1898	25	1894	16	2.19	—	—
	North Shields.....	29.837	46.9	45.2	53.5	42.2	69	1898	27	1890, 92, 95	17	2.93	—	—
	Spurn Head.....	29.859	49.0	47.5	53.8	45.6	[70]	[1900]	[33]	[1887, 95]	16	2.26	—	—
Yarmouth.....	29.885	49.3	47.6	54.5	44.7	74	1900	27	1895	18	2.91	—	—	
Clacton-on-Sea.....	[30.046]	[47.4]	[45.5]	[55.7]	[45.1]	[69]	[1904]	[29]	[1905]	[16]	[1.71]	[110.6]	[34]	
Nottingham.....	29.899	45.5	44.3	55.1	41.5	75	1895	20	1890	20	2.60	[88.6]	[27]	
Bath.....	[29.945]	[47.7]	[46.2]	[57.6]	[42.5]	[73]	[1873]	[24]	[1905]	15	3.05	[93.0]	[29]	
Oxford.....	29.921	46.2	44.8	55.7	42.1	76	1889	22	1873	15	2.76	100.6	31	
LONDON { Westminster.....	[30.029]	[43.6]	[41.7]	[53.0]	[38.7]	[61]	[1905]	[29]	[1905]	[16]	[1.01]	68.7	21	
{ Brixton.....	29.921	47.7	46.1	56.8	42.9	80	1886	24	1890	16	2.73	—	—	
NOVEMBER.	Sumburgh Head.....	29.718	42.5	40.8	46.0	38.5	58	1901	21	1875	24	3.96	—	—
	Stornoway.....	29.732	42.6	41.5	47.0	37.5	58	1897, 1901, 02	20	1880	24	5.41	41.4	18
	Malin Head.....	29.784	44.5	42.7	48.3	41.4	[59]	[1894, 96]	[31]	[1889]	[21]	[3.23]	—	—
	Blackod Point.....	29.830	45.8	43.9	49.8	41.9	[60]	[1897, 99]	[26]	[1890]	[24]	[5.20]	—	—
	Valencia.....	29.893	47.4	45.4	52.3	42.8	63	1881	27	1890, 96, 1901	22	5.67	64.8	25
	Roche's Point.....	29.899	46.4	44.9	51.3	42.3	61	1875	27	1890	18	4.69	—	—
	Birr Castle.....	29.879	41.8	40.5	49.2	37.1	63	1872	19	1905	19	3.10	62.9	25
	Donaghadee.....	29.848	44.0	42.8	48.9	39.8	60	1894	27	1878, 83	19	3.20	—	—
	Liverpool (Observatory).....	29.891	42.9	41.1	48.2	39.9	63	1872	22	1880	17	2.65	—	—
	Holyhead.....	29.874	46.2	44.4	50.0	42.9	62	1881	29	1880	19	4.14	—	—
	Pembroke (St. Ann's Hd.).....	29.898	47.3	45.6	50.7	43.8	58	1884, 95, 97, 99, 1901, 2	28	1890	20	3.94	62.3	24
	Scilly (St. Mary's).....	29.917	50.2	48.1	53.0	46.5	61	1898	29	1890	20	3.68	75.6	28
	Jersey (St. Aubin's).....	29.962	48.0	45.9	52.6	44.2	66	1899	16	1890	20	4.10	76.2	28
	Portland Bill.....	[29.938]	[46.6]	[44.8]	[51.0]	[42.9]	[61]	[1901]	[30]	[1902]	[14]	[2.11]	—	—
	Dungeness.....	29.930	44.9	43.5	50.1	40.8	63	1899	17	1890	17	2.66	—	—
	Wick.....	29.750	42.0	40.5	46.7	36.8	62	1900	15	1884, 1904	20	2.81	—	—
	Nairn.....	29.771	40.5	38.9	46.4	35.5	61	1885, 94	12	1904	17	2.21	—	—
	Aberdeen.....	29.802	41.1	39.3	46.6	37.1	62	1872, 89	15	1880, 84	20	3.22	54.5	23
	Leith.....	29.825	42.3	40.6	48.5	37.6	64	1872	16	1885	16	2.47	—	—
	North Shields.....	29.851	42.7	41.1	48.0	38.2	62	1894	20	1890	16	2.44	—	—
	Spurn Head.....	29.880	43.8	42.5	47.7	40.6	[61]	[1894, 95]	[28]	[1884]	17	1.98	—	—
Yarmouth.....	29.903	43.6	42.3	48.0	39.4	60	1895, 98, 99, 1904	23	* 1890	18	2.70	—	—	
Clacton-on-Sea.....	[29.878]	[41.0]	[39.0]	[47.9]	[39.0]	[59]	[1902]	[25]	[1904]	[11]	[1.55]	[78.4]	[30]	
Nottingham.....	29.916	40.7	39.6	48.0	36.9	63	1895	13	1904	20	1.99	[33.5]	[13]	
Bath.....	[29.981]	[40.7]	[39.5]	[50.3]	[37.4]	[64]	[1879]	[18]	[1901]	15	2.95	[54.2]	[21]	
Oxford.....	29.938	41.4	40.2	48.7	37.7	63	1899	17	1904	15	2.44	56.5	23	
LONDON { Westminster.....	[29.933]	[40.7]	[39.6]	[47.9]	[36.7]	[56]	[1905]	[25]	[1905]	[19]	[3.01]	26.6	10	
{ Brixton.....	29.938	42.6	41.1	49.6	38.4	65	1894	19	1879	15	2.35	—	—	
DECEMBER.	Sumburgh Head.....	29.646	40.2	38.7	43.1	36.1	53	1890, 1905	19	1877	26	4.45	—	—
	Stornoway.....	29.669	40.1	39.0	43.0	34.7	55	1898	15	1880	26	5.90	23.9	12
	Malin Head.....	29.745	41.8	40.2	45.4	38.4	[56]	[1900, 04]	[29]	[1904]	[23]	[3.21]	—	—
	Blackod Point.....	29.799	43.4	41.5	47.2	39.4	[59]	[1890]	[26]	[1896]	[27]	[5.81]	—	—
	Valencia.....	29.875	45.3	43.2	50.0	40.7	57	1884, 88, 99, 1900	24	1886	25	6.21	41.0	17
	Roche's Point.....	29.890	44.1	42.7	48.5	40.0	58	1873	25	1882	20	5.32	—	—
	Birr Castle.....	29.866	39.0	37.8	45.6	34.3	58	1877, 1900	8	1878	20	3.07	43.9	19
	Donaghadee.....	29.819	41.1	40.1	46.1	36.9	56	1885, 88, 94	20	1879	20	2.96	—	—
	Liverpool (Observatory).....	29.878	39.4	37.7	44.3	36.1	59	1891, 98, 1900	13	1878	18	2.46	—	—
	Holyhead.....	29.860	43.3	41.6	46.7	39.5	56	1872, 88	25	1874	20	3.80	—	—
	Pembroke (St. Ann's Hd.).....	29.898	44.4	42.9	47.5	40.9	57	1899, 1902	19	1890	21	4.03	42.3	18
	Scilly (St. Mary's).....	29.929	47.7	45.8	50.4	43.9	58	1899, 1900	30	1890	22	4.21	57.6	23
	Jersey (St. Aubin's).....	29.989	44.0	42.2	48.1	40.2	61	1876	19	1871	20	3.84	61.7	25
	Portland Bill.....	[29.923]	[44.5]	[43.1]	[47.8]	[41.0]	[55]	[1900]	[25]	[1902]	[18]	[2.54]	—	—
	Dungeness.....	29.949	40.7	39.6	45.3	36.5	56	1880, 97, 98, 1900	12	1890	16	2.24	—	—
	Wick.....	29.681	38.9	37.6	43.1	33.6	56	1898	10	1880	22	2.99	—	—
	Nairn.....	29.709	37.6	36.1	42.6	32.4	58	1900	10	1882	18	2.08	—	—
	Aberdeen.....	29.745	37.7	36.0	42.5	33.5	58	1873	6	1883	20	3.06	37.0	18
	Leith.....	29.778	39.3	37.7	44.5	34.3	60	1896	6	1882	16	1.97	—	—
	North Shields.....	29.820	39.0	37.7	43.7	34.5	59	1873, 98	10	1878, 79	16	2.17	—	—
	Spurn Head.....	29.880	39.4	38.3	43.2	35.9	[56]	[1898]	[19]	[1891]	15	1.94	—	—
Yarmouth.....	29.907	38.7	37.6	42.8	34.4	60	1901	15	1879	18	2.11	—	—	
Clacton-on-Sea.....	[30.079]	[39.9]	[39.3]	[43.4]	[35.9]	[55]	[1904]	[20]	[1902]	[13]	[1.20]	[49.7]	[21]	
Nottingham.....	29.911	37.1	36.0	43.4	33.0	58	1898	-1	1879	20	2.99	[29.7]	[13]	
Bath.....	[29.917]	[39.9]	[38.6]	[46.2]	[35.1]	[58]	[1876, 99, 1901, 02]	[14]	[1890]	13	2.92	[30.7]	[13]	
Oxford.....	29.947	37.7	36.6	43.7	34.1	59	1888, 97	6	1878	16	2.03	40.8		



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

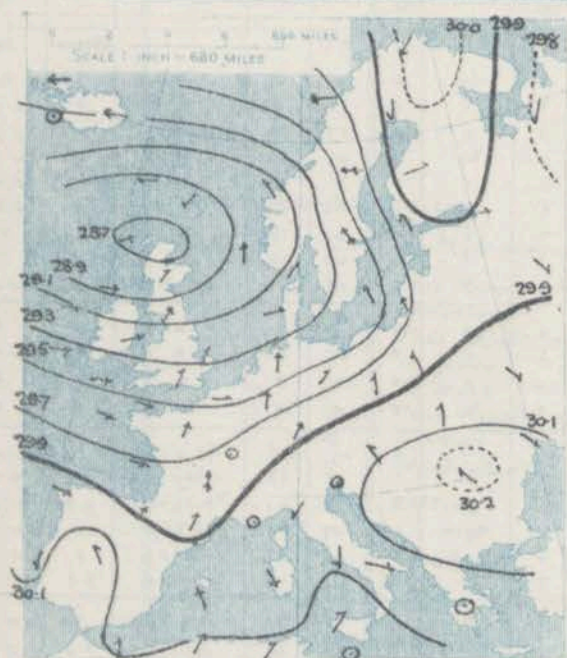
Wednesday  
1st December, 1909.

STATIONS.		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.		Temperature.			Wind.		Force (0 to 12).	Weather.	Sea (0 to 9).	Temp.		Weather.	Sun-shine.	Rainfall.
At 33° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Dir.	Force (0 to 12).	At 33° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Dir.	Force (0 to 12).	Weather.	Max.	Min.	Hours.	Inch.						
SCANDINAVIA.	Haparanda...	29.95	1	E	2	o	29.81	-17	7	7	+3	ENE	2	bc	*	10	0	*	"	-	
	Hernösand...	29.49	24	E	6	5	29.50	-18	23	22	-2	ENE	6	S	*	37	-6	*	"	0.24	
	Stockholm...	29.30	37	2	0	f	29.39	-02	32	32	+4	NW	2	o	*	37	23	*	"	0.39	
	Wishby...	29.32	40	S	4	o	29.42	+04	40	36	+6	SW	4	bc	*	41	25	*	"	0.75	
ICELAND & FAEROE.	Karlstad...	29.30	33	SW	2	r	29.31	+18	33	33	-1	E	2	r	*	"	"	*	"	0.28	
	Færder (X'ania Fjord)	29.20	34	N	2	r	29.13	+03	42	40	+12	S	5	o	3	42	30	*	"	0.08	
	Bodö...	29.67	19	ESE	7	b	29.56	-06	16	13	-5	E	7	b	2	21	16	*	"	-	
	Christiansund...	28.98	38	ESE	1	o	28.97	-02	42	37	+7	SE	2	o	3	43	35	*	"	-	
BRITISH ISLANDS.	Skudesnaes...	28.95	44	S	6	r	28.88	-06	41	40	-3	SSE	4	r	4	45	41	o.r	"	0.95	
	Isafjord...	29.53	35	ENE	8	C	29.63	+20	30	*	-9	NE	9	o	*	"	"	*	"	"	
	Reykjavik...	29.50	34	E	7	b	29.41	+19	30	*	0	N	3	C	*	"	"	*	"	"	
	Seydisfjord...	29.40	30	ENE	4	S	29.06	-23	31	*	-5	ENE	4	S	*	"	"	*	"	"	
GERMANY, &c.	Thorshavn...	29.01	36	NE	4	C	28.98	+12	32	*	-10	NW	3	bc	*	"	"	*	"	"	
	Sumburgh Head	28.80	39	NNE	1	o	28.95	+23	37	34	-3	W	2	o	1	42	35	bc. o. c	*	0.14	
	Stornoway...	29.01	40	NNW	4	bc	29.01	+33	33	32	-7	N	2	bc	2	43	32	c. bc. bc.	0.9	0.10	
	Castlebay (Barra Id.)	29.11	46	NW	4	C	29.00	+24	41	40	-3	SE	1	d	3	46	41	bp. c. bc. d	0.3	0.27	
FRANCE.	Malin Head	29.08	47	WNW	7	chq	29.02	+13	43	43	+1	WSW	4	rgm	4	47	39	cap. bc. r	"	0.63	
	Blacksod Pt.	29.28	47	NW	5	cap	29.12	-03	49	44	+6	NW	6	cap	5	49	42	cap	"	0.42	
	Valencia...	29.50	48	WNW	7	C	29.39	+01	53	51	+7	W	7	o	6	54	44	bc. c. r. q	2.5	0.56	
	Roche's Point	29.44	45	WNW	4	b	29.29	-07	48	48	+6	WNW	3	r	4	48	42	b. bc. bc. r	*	0.17	
SPANISH PENIN.	Birr Castle	29.31	42	W	3	b	29.15	-08	46	45	+7	WSW	4	cp	*	47	38	cp. b	3.0	0.24	
	Donaghadee	29.09	41	SSW	2	r	29.17	+21	?	?	?	SSW	1	r	1	51	39	at. bc. or	"	0.04	
	Liverpool Obsy...	29.17	43	SW	6	o	29.25	+06	43	41	0	SW	3	r	4	46	40	b. bc. or	3.4	0.05	
	Holyhead	29.19	45	W	7	cap	29.25	+03	43	43	-2	NW	3	r	3	47	42	cap	"	0.14	
SPANISH PENIN.	Pembroke (St. Ann's Hd.)	29.33	48	W	7	o	29.34	+03	46	45	-1	SW	5	rg	6	49	45	bc. chq. og	3.9	0.06	
	Scilly (St. Mary's)	29.53	48	W	6	op	29.49	+02	47	46	0	SW	5	r	4	51	45	cp. op	0.0	0.32	
	Jersey (St. Aubins)	29.59	47	W	6	C	29.60	+09	50	47	+2	W	6	o	5	52	45	bc. c. orh	4.8	0.39	
	Portland Bill	29.41	49	W	7	bc	29.44	+05	49	48	+1	W	5	o	5	50	48	bc. bc.	4.6	0.06	
SPANISH PENIN.	Dungeness	29.42	48	WSW	5	bc	29.43	+05	45	44	0	WSW	4	C	4	49	41	c. bc. c. bc.	5.2	0.04	
	Dover	"	"	"	"	"	29.42	+02	41	40	-1	W	3	b	4	49	39	o. c. b	5.3	-	
	Wick	28.90	38	NW	3	bc	29.00	+33	32	32	-8	W	1	bc	2	43	32	-	"	0.10	
	Nairn	28.92	40	W	2	bc	29.03	+32	34	33	-5	2	0	bc	1	44	33	c. bc.	3.3	-	
SPANISH PENIN.	Aberdeen	28.88	41	W	4	C	29.05	+26	34	33	-6	SW	1	C	2	44	33	c. bc. c. b	0.3	-	
	Leith	28.90	41	W	3	C	29.07	+20	42	40	0	SW	2	C	"	45	39	op. c. o. c	"	0.03	
	North Shields	28.97	42	S	4	C	29.17	+15	39	38	-5	2	0	C	2	45	36	C	0.7	-	
	Spurn Head	29.14	43	SW	6	bc	29.24	+06	40	39	0	WSW	4	C	4	45	40	em. bc. o. c	"	-	
SPANISH PENIN.	Yarmouth	29.32	43	WSW	3	bc	29.30	+01	39	38	-2	WSW	3	bc	4	46	38	bc	5.8	-	
	Clacton-on-Sea	29.38	42	W	3	bc	29.37	+02	39	38	-2	WSW	3	C	2	47	38	c. bc. c	5.3	-	
	Nottingham	29.23	43	SW	5	b	29.31	+06	40	39	+1	SW	2	o	"	45	37	b. bc. cp	2.9	0.02	
	Bath	29.39	44	SW	3	o	29.39	+01	46	44	+5	SW	1	o	"	48	41	"	5.2	0.27	
SPANISH PENIN.	Oxford	29.37	42	SW	5	o	29.36	-01	43	42	+1	SSW	3	o	"	47	39	bc. op. r. c. o	"	0.07	
	London (St. James's Pt)	29.39	45	WSW	4	b	29.40	+05	40	40	-2	WSW	2	bc	"	49	39	b. bc. b. cp.	5.5	0.01	
	The Scaw (Skagen)	29.22	42	SSW	2	o	29.16	+04	42	41	+1	SSW	6	o	2	43	41	"	"	-	
	Fanö	29.28	42	SW	6	b	29.21	-01	42	41	-2	SSW	7	C	"	45	41	"	"	0.12	
SPANISH PENIN.	Cuxhaven†	29.39	44	S	4	b	29.36	+05	42	39	-4	S	6	o	"	46	41	"	"	0.04	
	The Helder	29.37	47	WSW	5	b	29.30	00	45	42	-1	W	4	r	3	47	41	"	"	0.21	
	Brussels	"	"	"	"	"	29.50	+10	41	39	-4	SW	4	o	"	46	39	"	"	0.2-	
	Berlin†	29.56	46	SW	2	o	29.63	+06	37	37	-6	SW	3	b	"	46	36	"	"	-	
SPANISH PENIN.	Frankfurt†	29.70	44	SW	5	o	29.66	+04	42	33	-3	SW	5	o	"	50	41	"	"	-	
	Munich†	29.82	36	SW	3	bc	29.85	-02	34	31	+2	SW	4	o	"	41	30	"	"	-	
	C. Gris Nez	29.42	46	W	5	bc	29.46	+07	46	44	-1	W	6	o	6	50	43	"	"	0.20	
	La Hève	29.58	47	WSW	6	o	29.56	?	45	42	0	WSW	6	o	5	52	41	"	"	0.12	
SPANISH PENIN.	Brest	29.66	50	W	6	C	29.69	+10	51	51	+4	W	6	r	5	50	47	"	"	0.08	
	Lorient	"	48	W	5	C	?	?	49	48	+1	W	5	r	5	54	46	"	"	0.08	
	Rochefort	29.78	50	WSW	5	bc	29.80	+10	50	48	+1	WNW	5	o	"	54	46	bc	"	0.16	
	Biarritz	29.95	49	SW	5	r	29.99	+12	52	50	-2	SW	8	o	7	55	48	"	"	0.67	
SPANISH PENIN.	Paris	29.68	43	S	3	b	29.67	+13	40	39	-5	SSW	3	o	"	49	37	"	"	0.12	
	Belfort	29.74	44	WSW	7	o	29.85	+07	39	37	-2	WSW	6	o	"	49	37	"	"	0.12	
	Lyons	29.84	49	S	5	o	29.93	+11	38	35	-6	S	1	C	"	53	35	"	"	0.04	
	Nice	29.95	44	E	4	r	29.84	-19	46	45	+5	2	o	o	4	54	41	"	"	0.24	
SPANISH PENIN.	Perpignan	29.89	43	SW	1	C	29.95	+13	47	42	+12	NW	4	b	"	53	35	"	"	0.02	
	Sanguinaire	30.09	50	S	3	r	29.96	-11	55	51	+1	SW	4	o	5	59	48	"	"	0.71	
	Corunna																	"	"	-	
	Lisbon																	"	"	-	
SPANISH PENIN.	Azores (P. Delgada)																	"	"	-	
	" Horta	30.40	57	NW	2	b	30.43	+10	55	51	-4	NNW	2	C	2	64	55	"	"	-	

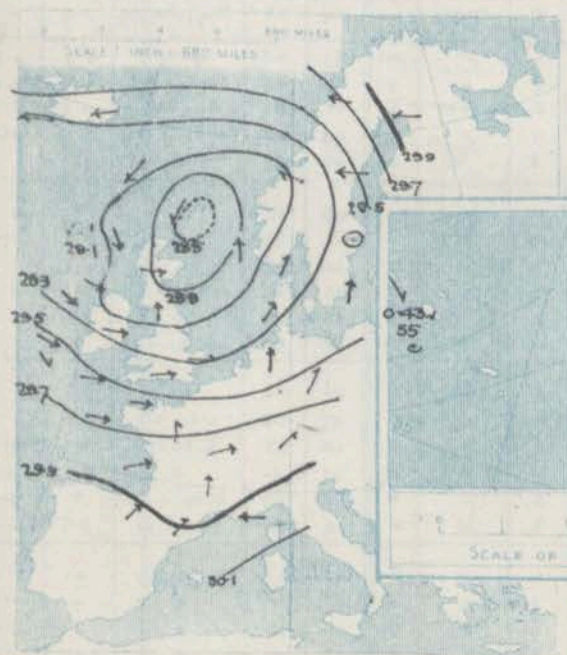


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A.M. YESTERDAY.

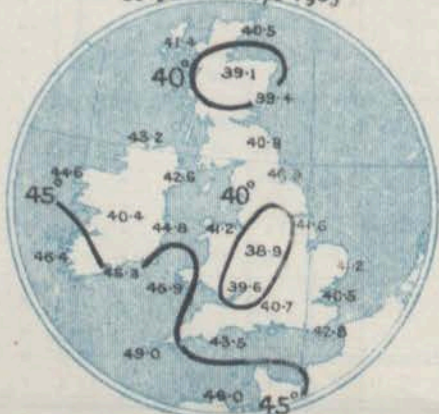


6 P.M. YESTERDAY.



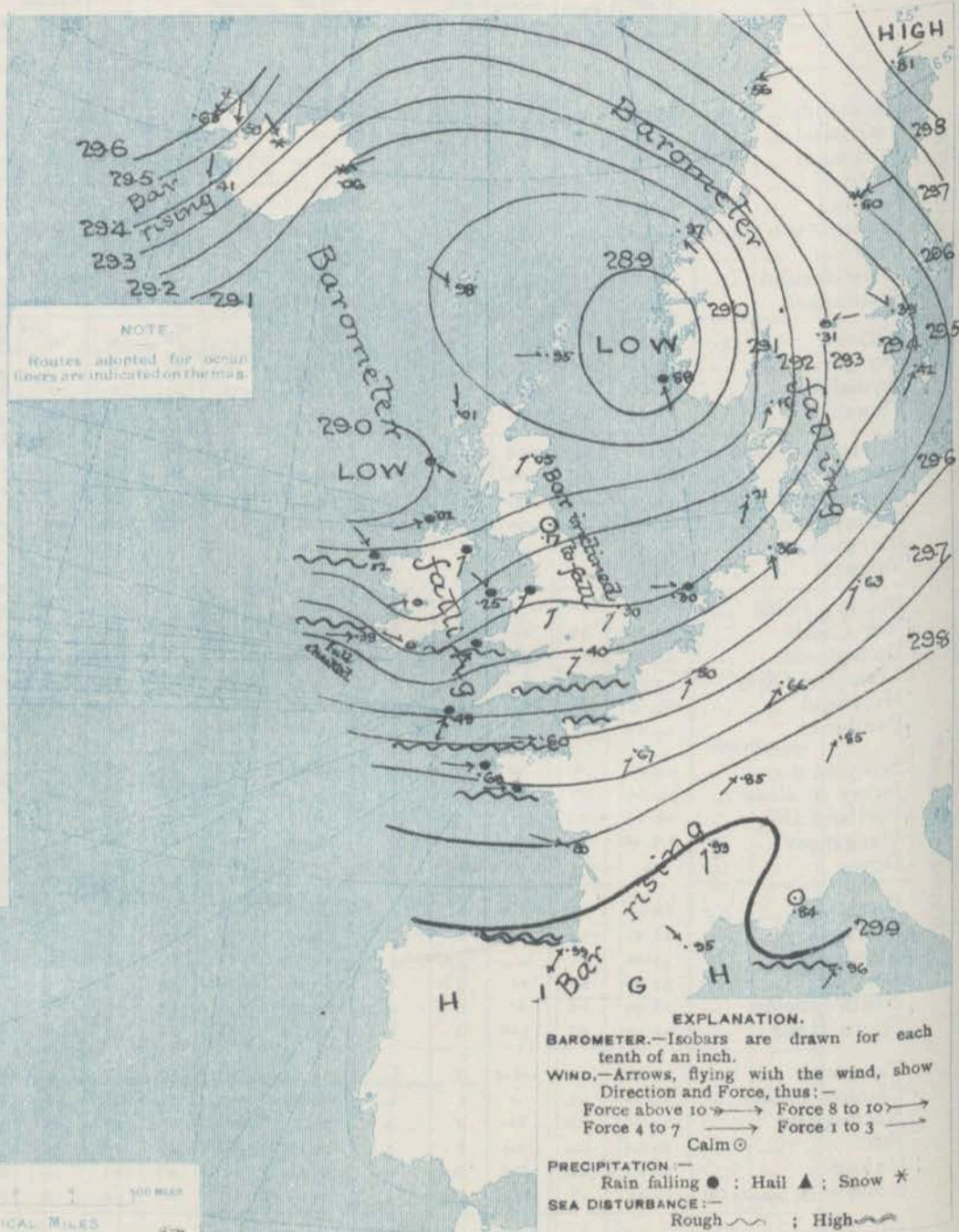
AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
NOVEMBER-DECEMBER.

(Derived chiefly from Observations extending over  
the 35 years—1871-1905)



Wednesday, WEATHER 1<sup>st</sup> Dec:

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

The recent deep cyclonic system is now centred between Scotland and Norway, where the barometer is below 28.9 ins. In a new depression to the north-westward of Ireland the barometer has again fallen to 29 ins. At the Azores pressure is above 30.4 ins. There is a considerable gradient over the greater part of the region under observation.

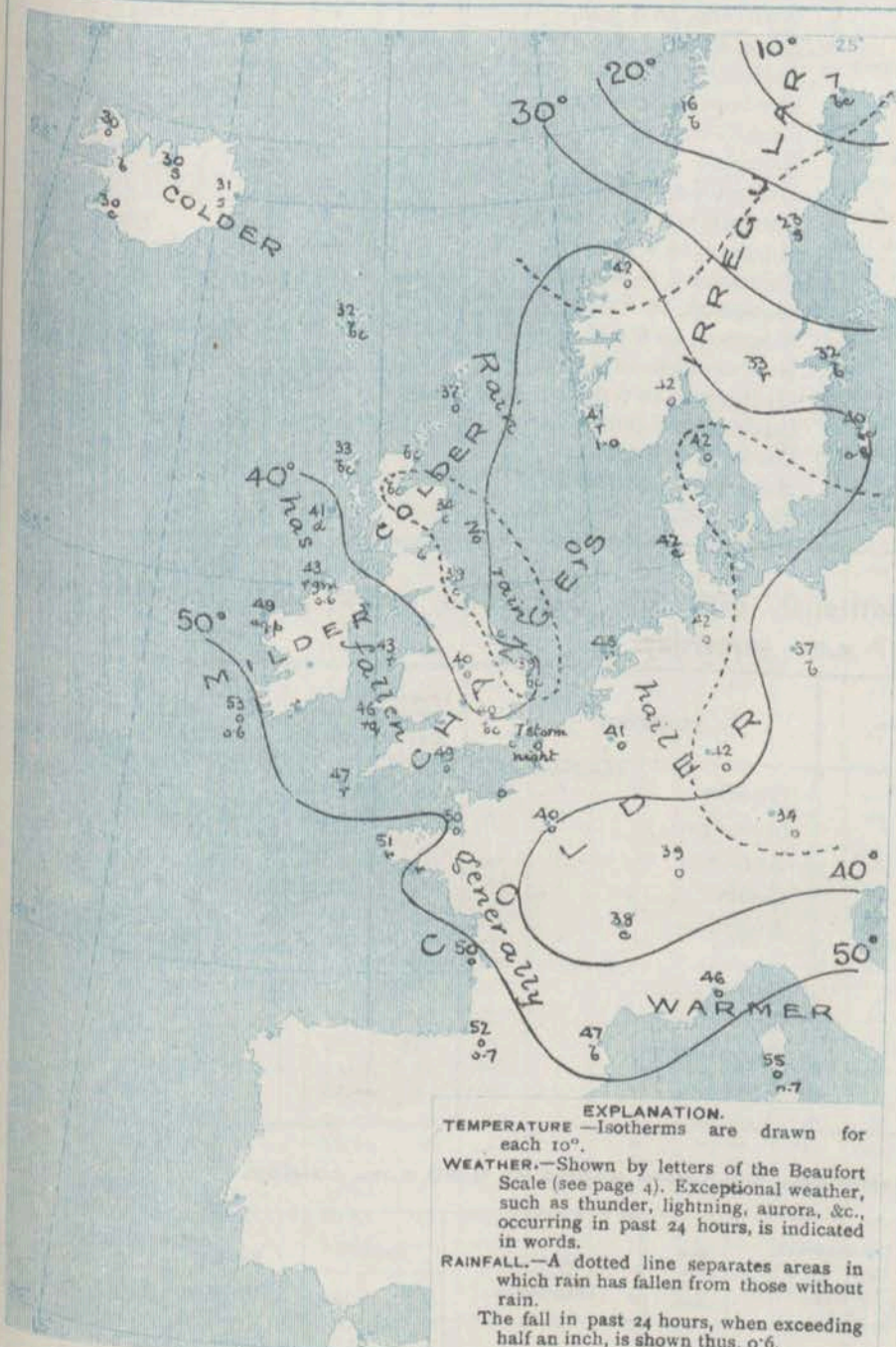
The winds show a cyclonic circulation round the main depression, and also with the approaching disturbance. The force is everywhere very variable, from a light air to a strong or high wind, and at Biarritz a gale. Temperature is changing very irregularly. At the home stations the values range from 32° at Wick to 53° at Valencia; over western Europe from 34° at Munich to 52° at Biarritz; in Scandinavia from 7° at Haparanda to 42° at Christiansund; and in Iceland from 30° to 32°. The weather generally is in a very disturbed state. Rain is falling over the western half of the British Isles, in Brittany, Holland and southern Scandinavia, snow at Hemsö and in Iceland. A rough or rather rough sea is running off our south-western coasts, in the Channel and on the Bay of Biscay.



# CHARTS

1st December, 1909.

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



### NOTES ON YESTERDAY'S WEATHER.

During yesterday temperature remained below 50° in nearly all parts of these islands, as low as 42° in Shetland & at Darwen, 41° at Buxton. Rain has fallen nearly everywhere, more than 0.5 inch at Valencia and Malin Head. Pungener reports a thunderstorm, and several neighbourhoods have had a lunar halo. As a rule there was a good deal of bright sunshine, Southsea, Bognor, Worthing and Brighton exceeding 6 hours. Wireless reports from the Atlantic show that ships experienced S.W. winds, moderate to a gale in force, with fair to dull weather as far west as the 22nd meridian.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The new disturbance off our northwestern coasts, and its secondary in the southwest, will occasion rain in all parts of the Kingdom.

## FORECASTS

For the 24 hours commencing at NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

0 } Light and very variable breezes; changeable, some rain; cold to moderate temperature.

1 }  
2 }  
3 }  
4 }  
5 }  
6 }  
7 }  
8 }  
9 }  
10 }

5.88<sup>h</sup> and 7.88<sup>h</sup> winds, force very variable, strong at times locally; dull, considerable rain, some fair intervals; moderate temperature.

### II WESTERN CHANNEL AND BAY.

5.88<sup>h</sup> to 7.68<sup>h</sup> winds, strong to moderate; sea rough to moderate; squally, changeable, considerable rain, some fog; moderate temperature.

### FORECAST DISTRICTS.

Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

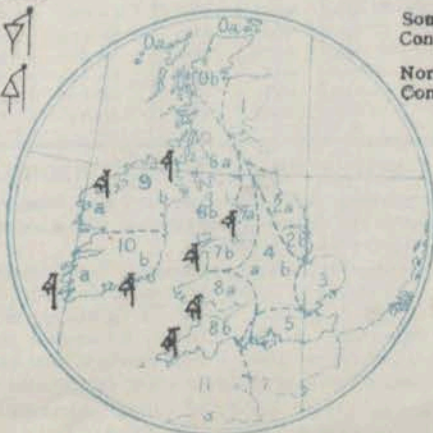
Signals hoisted this morning.

South Cone.

South Cone.

North Cone.

North Cone.





Wednesday, 1st December, 1909.

TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

TEMPERATURE, WEATHER, WIND DIRECTION AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max. °	Min. °					Max. °	Min. °			
Oban, to 6 p.m. ... ..	47	42	S. 0	0.1	0.68	Worthing, to 6 p.m. ...	49	38	S. 0. 6. 0	6.4	0.23
Dublin (City), to 4 p.m. ...	46	39	6 a. 1. 0	"	0.02	Brighton, to 6 p.m. ...	49	45	"	6.2	0.1
Rossall Beach, to 6 p.m.	47	42	C. 0. 0. 0	"	0.17	Seaford, to 6 p.m. ...	48	45	6	5.1	0.75
Blackpool, to 9 p.m. ...	46	41	0. 0. 0. 0	0.1	0.07	Eastbourne, to 6 p.m. ...	50	44	"	5.0	0.34
Southport, to 9 p.m. ...	46	42	6. 0	1.8	0.09	Bexhill-on-Sea, to 9 p.m.	50	43	"	5.0	0.21
Rhyl, to 6 p.m. ....	46	42	C. 0. 6. 0	2.0	0.08	Hastings ... ..	"	"	"	5.1	"
Colwyn Bay, to 6 p.m. ...	46	41	6. 6. 0. 0	0.1	0.05	Folkestone, to 6 p.m. ...	50	40	N. 6. 6. 6	5.2	0.18
Llandudno, to 9 p.m. ...	46	42	6. 6. 0. 0	2.3	0.19	Ramsgate, to 6 p.m. ...	"	"	"	5.5	0.11
Bettws-y-Coed, to 6 p.m.	45	41	C	0.0	"	Margate, to 6 p.m. ...	49	42	6	4.4	0.1
Towyn, to 6 p.m. ... ..	49	45	C. 6. 0	3.0	0.05	Felixstowe, to 6 p.m. ...	49	39	"	5.3	0.11
Aberystwyth, to 6 p.m. ...	49	45	"	2.1	0.07	Lowestoft, to 6 p.m. ...	"	"	"	"	"
Plymouth, to 9 p.m. ...	"	"	"	"	"	Skegness, to 6 p.m. ...	46	38	6. 0	5.4	"
Torquay, to 6 p.m. ... ..	50	41	"	4.5	0.08	Scarborough, to 9 p.m. ...	45	40	0. 0	0.0	0.11
Weymouth, to 6 p.m. ...	50	45	6	4.6	0.01	Harrogate, to 6 p.m. ...	43	38	"	0.3	0.01
Bournemouth, to 6 p.m. ...	50	39	6. 6	5.3	0.02	Buxton, to 6 p.m. ... ..	41	37	0. 6. 0. 0	4.2	0.01
Southsea, to 6 p.m. ... ..	50	38	"	6.1	0.08	Darwen, to 9 p.m. ... ..	42	35	6. 0. 6. 0	1.5	0.3
Bognor, to 6 p.m. ... ..	49	43	6	6.5	0.02	Manchester, to 9 p.m. ...	"	"	"	"	"
						Birmingham, to 9 p.m. ...	46	36	6. 0. 0. 0	3.6	0.3

TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ... ..	Not	recd.		Ins.	Utrecht ... ..	50	45	γ. γ	Ins. 0-52
Marseilles ... ..	52	37	δ. o	-	Groningen ... ..	50	45	γ. o	0-39
Malta ... ..	61	54	δ	0-04	Zurich ... ..	*	*	c. δ	-
Algiers... ..	63	52	bc. δ	-	Geneva ... ..	*	*	o. o	-
Tunis ... ..	63	39	c. c	-	Lugano ... ..	*	*	δ. bc	-
Palermo ... ..	57	44	δ. c	0-72	Berne ... ..	39	*	c	Measure 7.30 a.m.
Naples... ..	53	45	δ. δ	-	Coire ... ..	27	*	bc	-
Brindisi ... ..	53	35	δ. δ	-	Castasegna... ..	36	*	o	-
Rome ... ..	51	34	δ. δ	-	Davos ... ..	27	*	bc	-
Vienna... ..	45	28	o. c	-					
St. Petersburg ... ..	16	7	δ. δ	-					

**WIRELESS TELEGRAMS.**—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Dis- turbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Direc.	Force.		AIR.		Sea.			Lat.	Long.		Direc.	Force.	
							Dry Bulb.	Wet Bulb.									
	°	°	Inch.				°	°	°			°	°	Inch.			
Minnehaha...	NW 28 40am	50 N.	20 W.	29.75	WSW	6-7	.	.	.	.	Oceanic...	Nor 30 40am	49 N.	16 W.	29.72	NW	6-7
	- 7am	50 N.	21 W.	29.67	WSW	6-7	0	.	.	.	- 7am	49 N.	15 W.	29.70	NW	6-7	
	- 3pm	50 N.	23 W.	29.56	WSW	6-7	.	.	.	.							
	- 6pm	50 N.	24 W.	29.55	WSW	6-7	C	.	.	.							
New York...	NW 28 3pm	50 N.	10 W.	29.77	NEW	6-7	.	.	.	.	Lusitania...	NW 29 40am	51 N.	19 W.	29.39	W	8-9
	- 6pm	50 N.	11 W.	29.67	WSW	6-7	C	.	.	.		- 7am	51 N.	20 W.	29.38	W	8-9
	- 29 40am	50 N.	15 W.	29.48	W	8-9	.	.	.	- 3pm		51 N.	22 W.	29.64	NW	8-9	
	- 7am	50 N.	17 W.	29.34	W	8-9	C	.	.	- 6pm		51 N.	24 W.	29.68	NW	8-9	
	- 3pm	50 N.	19 W.	29.43	WNW	8-9	.	.	.	.	Arabic...	NW 29 3pm	51 N.	16 W.	29.37	WNW	8-9
	- 6pm	50 N.	20 W.	29.57	WNW	8-9	C	.	.	.		- 6pm	51 N.	16 W.	29.46	WNW	8-9
										- 30 40am		51 N.	20 W.	29.66	WNW	8-9	
Oceanic...	NW 28 3pm	48 N.	35 W.	30.02	NW	6-7	.	.	.	.	Lapland...	NW 30 40am	50 N.	17 W.	29.65	NW	8-9
	- 6pm	48 N.	33 W.	29.99	NW	8-9	C	.	.	.		- 7am	50 N.	18 W.	29.66	NW	8-9
	- 29 40am	49 N.	28 W.	29.85	NW	8-9	.	.	.	.		Dominion...	NW 28 40am	49 N.	29 W.	29.73	WNW
	- 7am	49 N.	27 W.	29.82	NW	8-9	.	.	.	- 3pm	60 N.		26 W.	29.78	WNW	6-7	
	- 3pm	49 N.	25 W.	29.80	NW	8-9	.	.	.	- 6pm	50 N.		25 W.	29.77	WNW	6-7	
	- 6pm	49 N.	21 W.	29.77	NW	6-7	C	.	.	.	- 29 40am		50 N.	22 W.	29.58	NW	6-7
										- 7am	50 N.		21 W.	29.57	NW	6-7	
										- 3pm	51 N.		19 W.	29.58	NW	6-7	
											- 6pm	51 N.	18 W.	29.58	NW	4-5	
												- 30 40am	51 N.	16 W.	29.58	NW	4-5
												- 7am	51 N.	13 W.	29.58	NW	4-5
												- 3pm	51 N.	11 W.	29.58	NW	4-5
												- 6pm	51 N.	10 W.	29.59	NW	4-5

NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—

(a) The morning observations are at 7 a.m., Western European time, (French Stations 651 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time,

TERMS OF SUBSCRIPTION for the Daily Weather Report  
and for transmission of Forecasts by telegraph may be  
obtained on application.

METEOLOGICAL OFFICE,  
68, VICTORIA STREET, S.W.  
W. N. SHAW, (*Director.*)

SPANISH  
PENION



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

Thursday  
2nd December 1909.

STATIONS.		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.						
		BAROM.		TEMP.		WIND.	Force (0 to 12).	Weather.	BAROMETER.		TEMPERATURE.			WIND.		Force (0 to 12).	Weather.	Sea (0 to 9).	TEMP.		Weather.	Sun-shine.	Rainfall.
		At 8 P.M. Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Change since Yesterday.	At 8 P.M. Fahr. and M.S.L. Lat. 45°				Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Max.	Min.								
SCANDINAVIA.	Haparanda...	29.83	31	NE	4	0	29.91	+0.10	3	3	-4	N	2	0	0	12	7						
	Hernösand...	29.59	31	E	4	0	29.60	+0.10	22	21	-1	NE	6	0	0	25	19			0.08			
	Stockholm...	29.34	37	SE	2	0	29.26	-0.13	35	35	+3	ENE	2	6	0	37	32			0.08			
	Wisby...	29.36	39	S	4	0	29.21	-0.21	38	37	-2	SE	4	0	0	43	32						
	Karlstad...	29.21	36	E	4	0	29.22	-0.09	33	32	0	ENE	4	0	0	40	34			0.7			
	Färder (X'ania Fjord)	29.04	42	S	4	0	29.16	+0.03	35	35	-7	NNE	6	0	3	43	34						
	Bodö...	29.56	18	E	9	0	29.63	+0.07	19	17	+3	E	6	0	2	19	14						
	Christiansund...	28.99	40	ESE	5	0	29.16	+0.19	38	33	-4	ESE	3	0	2	43	36						
ICELAND & FAEROE.	Skudesnaes...	29.00	36	N	2	0	29.12	+0.24	37	36	-4	E	2	0	2	41	36	r. b.					
	Isafjord...	29.74	31	ENE	9	0	29.76	+0.10	31	*	+1	ENE	8	0	0	*	*						
	Reykjavik...	29.47	34	N	10	0	29.56	+0.15	*	*	+2	N	5	0	0	*	*						
	Seydisfjord...	29.39	32	NE	5	0	29.46	+0.40	31	*	0	SE	1	0	0	*	*						
BRITISH ISLANDS.	Thorshavn...	28.97	37	NNW	3	0	28.90	-0.08	35	*	+3	WNW	3	0	0	*	*						
	Sumburgh Head	28.96	36	W	1	0	29.00	+0.05	38	34	+1	W	2	0	0	44	35			0.02			
	Stornoway...	29.11	38	NNW	2	0	29.15	+0.14	32	32	-1	W	2	0	2	38	31	om. cm. b. sp.	0.0	0.05			
	Castlebay (Barra Id.)	29.13	41	NNE	3	0	29.17	+0.17	39	37	-2	WNW	4	0	4	43	37	vt. op. bc. o. op.	0.0	0.15			
	Malin Head...	29.07	43	SW	5	0	29.22	+0.20	41	40	-2	SW	3	0	3	45	40	vt. op. bc. p.	*	0.76			
	Blacksod Pt. ...	29.27	47	NW	6	0	29.31	+0.19	47	41	-2	WSW	2	0	4	50	41	oap. o.	*	0.13			
	Valencia...	29.48	49	WNW	5	0	29.37	-0.02	45	45	-8	N	1	0	5	52	45	opm. o. om.	0.0	0.26			
	Roche's Point...	29.37	48	NW	8	0	29.39	+0.10	45	45	-3	SW	1	0	3	53	44	cap. b. od.	*	0.06			
	Birr Castle...	29.29	43	W	4	0	29.32	+0.17	41	40	-5	SSW	1	0	0	49	38	op. bc.	2.0	0.02			
	Donaghadee...	29.05	42	WSW	3	0	29.31	+0.14	38	38	?	WSW	2	0	2	45	35	bc. c. bc.	*	0.11			
	Liverpool Obsy...	29.00	44	W	7	0	29.34	+0.09	42	41	-1	SW	2	0	2	46	39	or. bc. or.	0.2	0.29			
	Holyhead...	29.08	45	NW	8	0	29.31	+0.06	44	43	+1	W	3	0	3	48	42	bcqm. eq.	*	0.26			
	Pembroke (St. Ann's Hd.)	29.24	48	NW	7	0	29.39	+0.05	48	45	+2	WSW	5	0	6	52	45	or. op. o. bc.	0.0	0.27			
	Scilly (St. Mary's)	29.44	52	W	8	0	29.53	+0.14	48	45	+1	WSW	6	0	4	55	46	o. op.	0.0	0.10			
	Jersey (St. Aubins)	29.32	54	W	8	0	29.55	-0.05	48	47	-2	WNW	4	0	4	55	46	egm. orgm.	0.0	0.49			
	Portland Bill...	29.15	50	WNW	8	0	29.43	-0.01	49	48	0	W	5	0	5	53	47	c. bc.	0.0	0.13			
	Dungeness...	28.96	48	W	6	0	29.33	-0.10	43	42	-2	W	3	0	4	49	42	vg. bcqr.	0.0	0.31			
Dover...	29.00	44	W	4	0	29.39	-0.03	41	40	0	W	2	0	3	46	40	or. op. o.	?	0.21				
GERMANY, & C.	Wick...	29.03	33	W	1	0	29.10	+0.10	32	30	0	W	2	0	1	35	29		*	0.03			
	Nairn...	29.05	38	W	2	0	29.15	+0.12	32	31	-2	WSW	1	0	1	39	29		0.0				
	Aberdeen...	29.02	36	NNW	1	0	29.18	+0.13	33	32	-1	SW	1	0	2	38	33	cy. bc. b. c.	0.0				
	Leith...	28.94	41	N	1	0	29.21	+0.14	37	35	-5	W	2	0	2	43	35	or.	*	0.40			
	North Shields...	28.90	39	NW	3	0	29.26	+0.09	36	35	-3	WSW	3	0	2	43	33	r.	0.0	0.30			
	Spurn Head...	28.82	40	2	0	0	29.27	+0.03	40	38	0	WNW	5	0	5	43	38	or. orq. op.	*	0.24			
	Yarmouth...	28.83	42	S	3	0	29.28	-0.02	39	38	0	WNW	3	0	4	44	37	o. or. o.	0.0	0.27			
	Clacton-on-Sea...	28.88	44	WNW	4	0	29.33	-0.04	42	40	+3	WNW	3	0	2	46	39	or. bcq.	0.0	0.24			
	Nottingham...	28.88	44	WNW	8	0	29.35	+0.04	37	36	-3	WSW	1	0	*	45	35	or. c. op.	0.0	0.22			
	Bath...	29.11	48	SW	2	0	29.44	+0.05	43	41	-3	W	1	0	*	51	41		0.1	0.09			
FRANCE.	Oxford...	29.09	44	W	7	0	29.45	+0.09	38	37	-5	SW	2	0	*	47	38	arg. eq. b. bc.	*	0.22			
	London (St. James's Pk)	28.99	47	W	6	0	29.38	-0.22	43	41	+3	WNW	3	0	*	48	40	c. org. eq. bc.	0.0	0.21			
	The Scaw (Skagen)	29.07	39	SW	2	0	29.14	-0.02	38	38	-4	SSW	1	0	1	43	34		*	0.08			
	Fanø...	29.04	41	W	6	0	29.15	-0.06	34	33	-8	NE	1	0	*	47	34		*	0.24			
	Cuxhaven†...	29.20	41	S	4	0	29.10	-0.26	39	43	-3	NNE	4	0	*	43	39		*	0.12			
	The Helder...	28.92	40	SSE	3	0	29.22	-0.08	43	42	-2	N	1	0	2	46	39		*	0.24			
	Brussels...	*	*	*	*	*	29.33	-0.17	42	40	+1	WNW	2	0	*	47	38		*	0.55			
	Berlin†...	29.38	41	SW	4	0	28.95	-0.68	35	43	-2	SSE	2	0	*	46	34		*	0.20			
	Frankfurt†...	29.31	41	SW	6	0	29.19	-0.47	42	78	0	SW	5	0	*	45	41		*	0.43			
	Munich†...	29.58	32	E	3	0	29.34	-0.51	38	83	+4	SW	6	0	*	39	30		*	0.28			
SPANISH PENIN.	C. Gris Nez...	29.00	49	W	7	0	29.38	-0.08	47	45	+1	WNW	6	0	8	52	45		*	0.32			
	La Hève...	29.19	47	WNW	7	0	29.54	-0.02	47	45	+2	WNW	7	0	7	52	41		*	0.24			
	Brest...	29.59	54	WNW	8	0	29.67	-0.02	54	52	+3	WNW	7	0	*	55	51		*	0.24			
	Lorient...	?	54	W	7	0	?	?	54	53	+5	W	6	0	7	55	49		*	0.28			
	Rochefort...	29.71	54	WNW	6	0	29.82	+0.02	53	53	+3	WNW	6	0	*	54	48	r.	*	0.32			
	Biarritz...	30.03	55	WSW	8	0	30.09	+0.10	55	55	+3	WSW	8	0	8	55	52		*	0.47			
	Paris...	29.23	48	SW	4	0	29.52	-0.15	43	41	+3	WSW	3	0	*	55	40		*	2.76			
	Belfort...	29.65	39	WSW	7	0	29.52	-0.33	41	38	+2	WSW	7	0	*	46	38		*	0.08			
Lyons...	29.74	42	S	2	0	29.67	-0.26	52	51	+4	W	4	0	*	52	38		*	0.28				
Nice...	29.75	46	2	0	0	29.45	-0.39	52	46	+6	W	6	0	*	52	39		*					
Perpignan...	29.92	51	SW	3	0	29.90	-0.05	57	51	+10	NW	7	0	*	57	47		*					
Sanguinaire...	29.94	50	W	4	0	29.86	-0.10	57	54	+2	W	8	0	7	57	50		*	1.10				
SPANISH PENIN.	Coruuna...																						
	Lisbon...																						
	Azores (P. Delgada)...																						
Horta...		30.44	57	S	3	0	30.44	+0.01	59	54	+4	2	0	0	1	63	55		*				

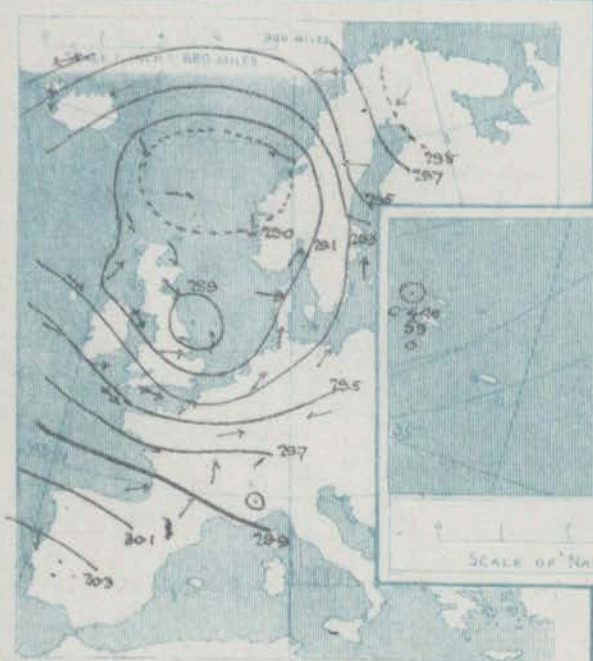


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A.M. YESTERDAY.



6 P.M. YESTERDAY

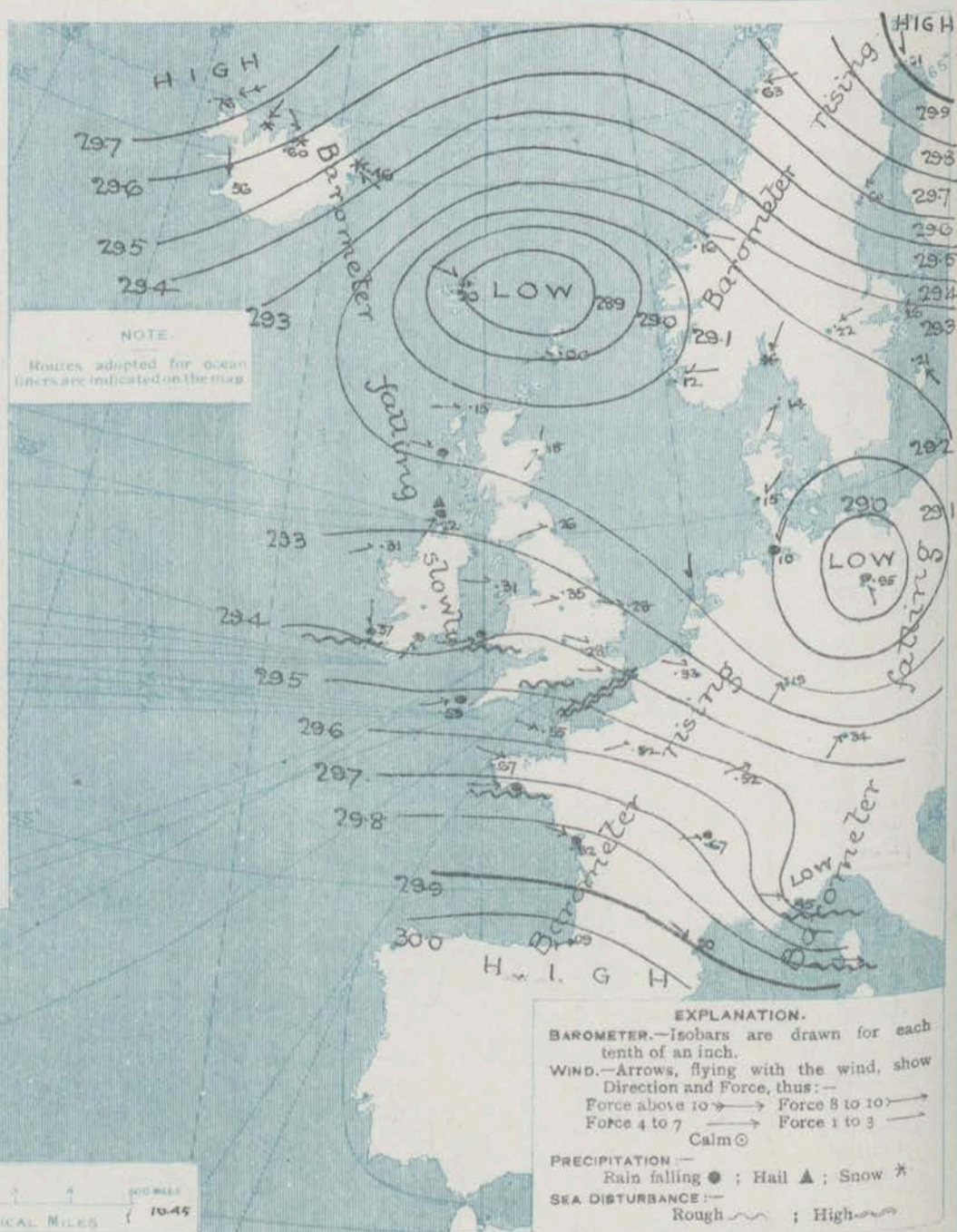


AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
NOVEMBER-DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Thursday, WEATHER 2<sup>nd</sup> Dec:

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

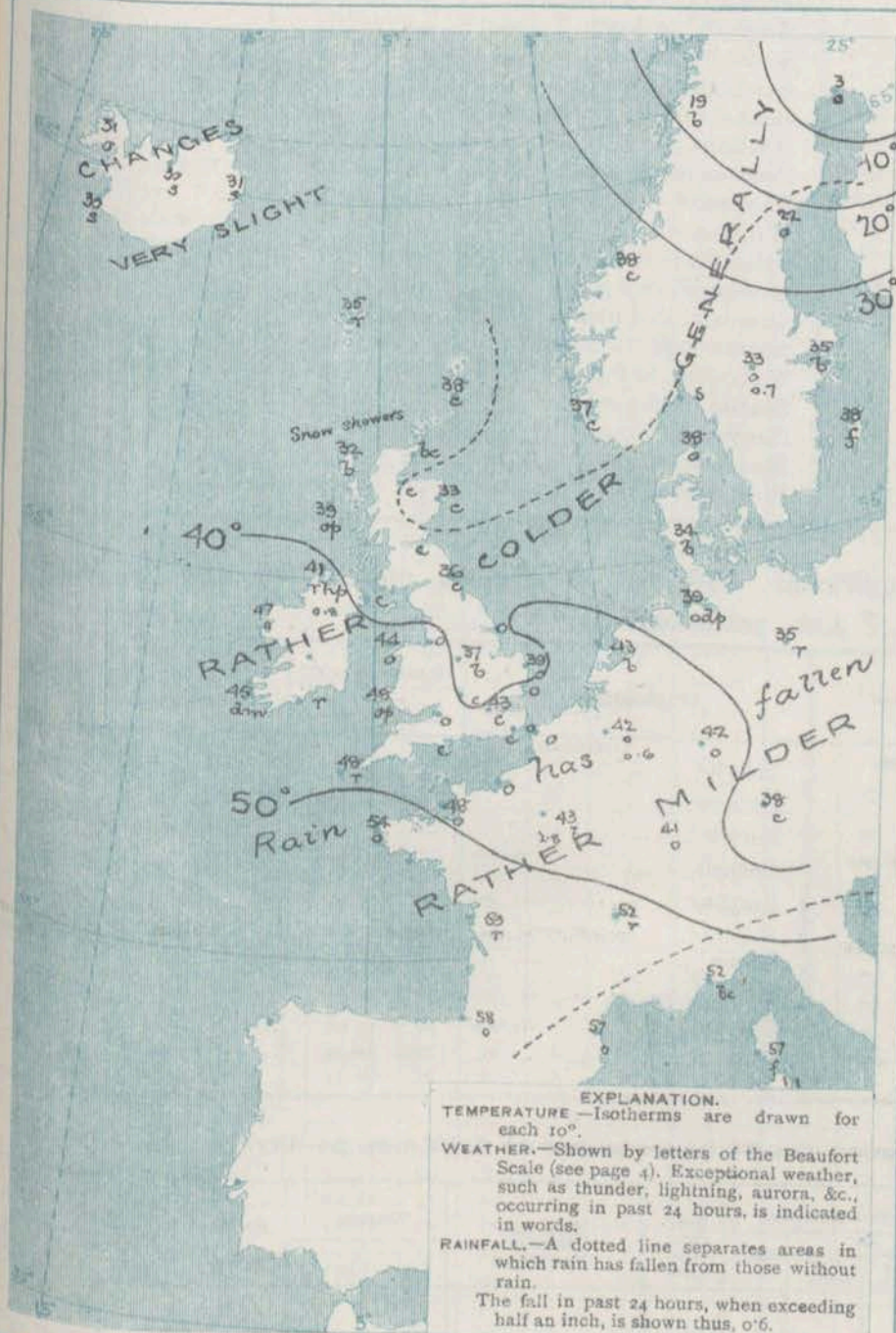
In a depression centred beyond the north of Scotland, and in another over North Germany the barometer is below 29 ins., at the Faeröe and at Berlin. Another has appeared on the Riviera, where the barometer has fallen quickly to below 29.5 ins. Pressure remains highest between Spain and the Azores, above 30.4 ins. at the Azores. The gradient is moderate to very slight in most regions, but it is rather steep on the Western Mediterranean.

The winds show a cyclonic circulation round the several depressions. The W. current over the British Isles is mostly light in force, but on the Channel and over France and Southwestern Germany fresh to strong or high winds are reported, a W. gale in Corsica. At the home stations temperature ranges, from 32° at Obairn, Stormoway and Wick, to 49° at Perpignan; in the western part of the Continent from 35° at Berlin to 57° at Perpignan; in Scandinavia from 3° at Haparanda to 38° at Christiansund and Wicks; in Iceland from 30° to 32°. The weather is nearly everywhere very cloudy or overcast, rain is falling at many of our own western stations, in western France, North Germany and in the Faeröe, snow on Christiania Fjord and in several parts of Iceland. A very high sea is running near Calais, a high sea off Havre and Corsica, and it is rough or rather rough in a few other localities, but generally it is slight to smooth.



# CHARTS 27 December, 1909.

## 2 TEMPERATURE AND WEATHER AT 7 A.M. TO DAY



## NOTES ON YESTERDAY'S WEATHER

During yesterday temperature rose to 55° at Jersey and Sully, but in most parts of these islands it remained below 50°, at Stornoway it did not exceed 38°. Rain fell in all districts, 0.5 inch at Jersey, 0.7 inch at Malin Head. Ann Castle reports 2 hours of bright sunshine, nearly every other station had none.

## GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

With the shallow irregularities of pressure crossing the country from west to east the conditions will remain of a changeable W. type, with more or less rain in all districts.

## FORECASTS

For the 24 hours commencing at NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { a  
b
- 1
- 2 { a  
b
- 3
- 4 { a  
b
- 5
- 6 { a  
b
- 7 { a  
b
- 8 { a  
b
- 9 { a  
b
- 10 { a  
b

Variable breezes between S.W. and N.W., light to moderate, but fresh at times locally; changeable, some rain; temperature moderate to cool.

## II WESTERN CHANNEL AND BAY.

Wind between S.W. and N.W., strong or high to moderate, sea rough to moderate; changeable, squally, some rain, local fog; moderate temperature.

## FORECAST DISTRICTS.

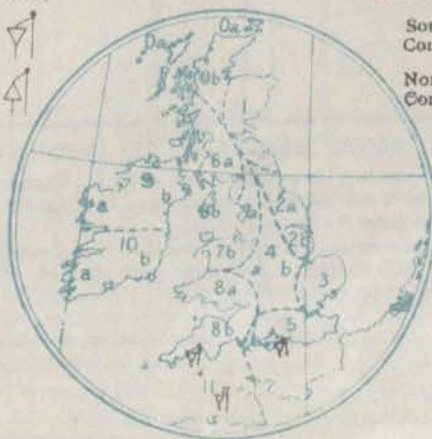
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

Signals hoisted this morning.

South  
Coast.  
North  
Coast.

South  
Coast.  
North  
Coast.





# DAILY WEATHER REPORT.

Thursday, 2nd December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...		38	ohp	0.0	0.35	Worthing, to 6 p.m. ...	49	39	r. o. c. b	0.0	0.25
Dublin (City), to 4 p.m. ...	48	41	b. o. r. g. on	*	0.14	Brighton, to 6 p.m. ...	49	42	"	0.0	0.24
Rossall Beach, to 6 p.m.						Seaford, to 6 p.m. ...	49	43	r. o	0.0	0.28
Blackpool, to 9 p.m. ...	45	40	o. o. o. o	0.0	0.58	Eastbourne, to 6 p.m. ...	50	42	"	0.0	0.25
Southport, to 9 p.m. ...	46	41	o. r. h. g. o	0.1	0.71	Bexhill-on-Sea, to 9 p.m.	49	40	"	0.0	0.25
Rhyl, to 6 p.m. ...	48	40	o. b. c. r	0.3	0.34	Hastings ...	*	*	"	0.0	0.16
Colwyn Bay, to 6 p.m. ...	48	42	b. o	0.3	0.35	Folkestone, to 6 p.m. ...	48	35	r. o	0.0	0.11
Llandudno, to 9 p.m. ...	47	41	b. o. o. o	0.0	0.33	Ramsgate, to 6 p.m. ...	*	*	"	0.0	0.19
Bettws-y-Coed, to 6 p.m.						Margate, to 6 p.m. ...	47	38	o. r	0.0	0.23
Towyn, to 6 p.m. ...	50	44	r. p. b. c. o	1.3	0.50	Felixstowe, to 6 p.m. ...	46	37	"	0.0	0.17
Aberystwyth, to 6 p.m. ...	49	43	"	0.0	0.20	Lowestoft, to 6 p.m. ...	49	36	c. o. r	0.0	0.31
Plymouth, to 9 p.m. ...						Skegness, to 6 p.m. ...	42	37	c. r. c	0.0	0.31
Torquay, to 6 p.m. ...	54	42	"	0.0	0.12	Scarborough, to 9 p.m. ...				0.0	0.33
Weymouth, to 6 p.m. ...	53	45	cp. o. g.	0.0	0.14	Harrogate, to 6 p.m. ...	42	35	b. c. p. o. r	0.0	0.68
Bournemouth, to 6 p.m. ...	52	41	r. o. b	0.0	0.20	Buxton, to 6 p.m. ...	41	38	o. o.	0.0	0.59
Southsea, to 6 p.m. ...	51	43	"	0.0	0.07	Darwen, to 9 p.m. ...	42	36	o. c. u.	0.0	0.35
Bognor, to 6 p.m. ...	51	43	o. r. d. o	0.0	0.23	Manchester, to 9 p.m. ...	45	40	c. o. r. c	0.0	0.19
						Birmingham, to 9 p.m. ...	46	38	o. r. p. o	0.6	0.19

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	57	43	o. o	-	Utrecht ...	46	39	b. o	0.08
Marseilles ...	62	54	b. o	-	Groningen ...	46	39	b. o	0.04
Malta ...	68	52	b. r	0.04	Zurich ...	*	*	o. o	0.35
Algiers ...	63	37	b. c. c	-	Geneva ...	*	*	r. o	0.16
Palermo ...	62	44	b. c. b	-	Lugano ...	*	*	o. r	Measured 7.30 a.m.
Naples ...	53	46	r. r	0.59	Berne ...	41	*	b	-
Brindisi ...	55	40	b. b. c	-	Coire ...	46	*	o	-
Rome ...	51	42	b. b	-	Castasegna ...	36	*	o	-
Vienna ...	41	27	o. o	-	Davos ...	36	*	o	-
St. Petersburg ...	18	5	s. s	0.12					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Direc.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Direc.	Force.	
	o	o	Ins.				o	o	*			o	o	Ins.			

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.51 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.
- \* Information for these columns is not usually received.
- † The figures in the "wet bulb" column represent the relative humidity.
- ‡ Received too late for insertion in Charts.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.  
W. N. SHAW, (Director.)

SCANDINAVIA.

ICELAND & FAEROE.

BRITISH ISLANDS.

GERMANY, &c.

FRANCE.

SPANISH PENIN.



1909.

# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

Friday  
3rd December, 1909.

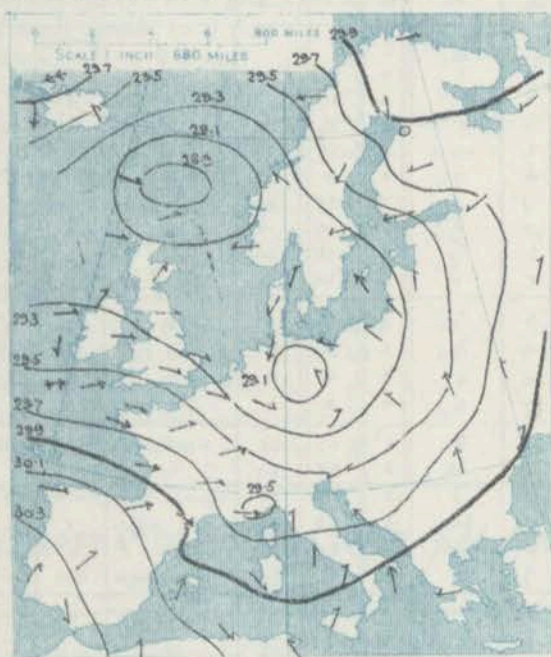
Station. Rainfall.  
0.0 0.25  
0.0 0.24  
0.0 0.28  
0.0 0.52  
0.0 0.25  
0.0 0.16  
0.0 0.11  
0.0 0.19  
0.0 0.23  
0.0 0.17  
0.0 0.31  
0.0 0.33  
0.0 0.68  
0.0 0.59  
0.0 0.35  
0.6 0.19  
  
HOURS  
  
RAIN.  
Ins.  
0.08  
0.04  
0.35  
0.16  
Measured  
7.30 a.m.  
  
Force.  
Weather.  
  
Report  
may be

STATIONS.		YESTERDAY EVENING.						THIS MORNING.										PAST 24 HOURS.					
		BAROM.		TEMP.		WIND.		Weather.	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9).	TEMP.		Weather.	Sun. shine.	Rainfall.		
		At 83° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Direc.	Force (0 to 19).	At 82° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.		Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 19).	Max.	Min.								
SCANDINAVIA.		Ins.	"	"	"	"	Ins.	Ins.	"	"	"	"	"	"	"	"	"	"	"	"	"		
Haparanda...		29.95	3	N	2	b	29.71	-20	3	3	0	NE	6	0	"	12	1	"	"	"	"		
Hernösand...		29.60	20	NE	6	o	29.43	-17	18	18	-4	N	8	5	"	23	19	"	"	"	"		
Stockholm...		29.30	30	NE	6	m	29.20	-06	26	26	-9	NE	4	0	"	36	26	"	"	"	0.04		
Wisby...		29.15	26	SE	4	o	29.13	-08	36	35	-2	ENE	2	m	"	39	26	"	"	"	"		
Karlstad...		29.32	31	NE	2	o	29.18	-04	29	28	-4	NE	6	0	"	"	"	"	"	"	"		
Færder (X'lanta Fjord)		29.25	33	NNE	6	o	29.00	-16	31	33	-1	E	7	0	"	35	30	"	"	"	0.04		
Bodö...		29.65	19	E	8	o	29.49	-14	17	14	-2	E	7	0	"	19	16	"	"	"	"		
Christiansund...		29.17	36	ESE	1	b	29.03	-13	34	30	-4	ESE	3	bc	"	39	34	"	"	"	"		
Skudesnaes...		29.07	38	S	6	o	28.57	-55	39	35	+2	ESE	9	0	"	39	36	"	"	"	"		
ICELAND & FAEROE.																							
Isafjord...		29.73	31	ENE	8	c	29.54	-22	30	"	-1	NE	8	c	"	"	"	"	"	"	"		
Reykjavik...		29.54	32	N	5	b	29.30	-25	30	"	-2	N	9	bc	"	"	"	"	"	"	"		
Seydisfjord...		29.41	32	Z	0	S	29.26	-20	31	"	0	Z	0	S	"	"	"	"	"	"	"		
Thorshavn...		28.86	37	W	4	c	28.89	-01	40	"	+5	E	7	c	"	"	"	"	"	"	"		
BRITISH ISLANDS.																							
Sumburgh Head		28.93	37	S	1	bc	28.64	-36	36	35	-2	NE	4	r	"	42	35	bc. b.	"	"	0.05		
Stornoway...		28.85	34	W	2	bc	28.69	-46	34	32	+2	N	3	bc	"	38	29	b. bc	"	"	3.3		
Castlebay (Barra Id.)		28.82	39	NNE	3	bc	28.69	-48	38	34	-1	NNE	3	b	"	40	36	op. c. o. bc. b.	"	"	0.05		
Malin Head...		28.69	38	E	3	ot	28.61	-61	42	40	+1	NW	5	bcq	"	43	35	ogm. ogm	"	"	0.19		
Blacksod Pt. ...		28.54	39	ESE	6	rgm	28.87	-44	44	40	-3	N	6	o qpl	"	48	35	org	"	"	0.85		
Valencia...		28.78	47	WSW	7	m	29.02	-35	44	42	-1	WNW	7	c	"	54	39	odpm. bcgo	"	"	0.45		
Roche's Point...		28.77	50	WSW	6	rg	28.96	-43	40	39	-5	W	5	c	"	54	39	d. org. cqp	"	"	0.23		
Birr Castle...		28.61	50	W	5	r	28.87	-45	37	36	-4	W	3	or	"	52	35	or	"	"	0.74		
Donaghadee...		28.75	40	N	5	r	28.56	+75	40	39	+2	WNW	6	o	"	50	36	c. org	"	"	0.86		
Liverpool Obsy...		28.74	41	ESE	4	r	28.45	-89	38	37	-4	WSW	8	r	"	51	38	o. or. th	"	"	1.01		
Holyhead...		28.65	51	SW	6	rgm	28.62	-69	42	39	-2	NW	8	c	"	51	39	rgm	"	"	0.41		
Pembroke (St. Ann's Hd.)		28.80	52	SW	8	o	28.78	-61	44	43	-4	W	8	cq	"	54	42	op. ogqm	"	"	0.35		
Scilly (St. Mary's)		29.10	52	W	6	ru	29.03	-50	50	48	+2	WSW	6	o	"	55	47	r. ru	"	"	0.92		
Jersey (St. Aubins)		29.30	53	WSW	6	r	29.01	-54	46	44	-2	W	7	og	"	54	44	org. c. q	"	"	0.71		
Portland Bill...		28.98	50	WSW	7	r	28.82	-61	46	45	-3	WNW	8	bc	"	53	45	odp. r	"	"	0.27		
Dungeness...		29.07	50	SW	7	r	28.69	-64	45	41	+2	WSW	8	cq	"	51	39	c. rg	"	"	0.94		
Dover...		"	"	"	"	"	28.78	-61	41	38	0	WSW	7	b	"	50	32	d. bc. c. or. c	"	"	0.41		
Wick...		28.88	31	W	1	bc	28.54	-56	39	36	+7	NE	4	c	"	39	30	-	"	"	-		
Nairn...		28.89	26	Z	0	b	28.50	-65	37	37	+5	WNW	5	o	"	39	23	d. c. r. sq	"	"	0.23		
Aberdeen...		28.91	29	WNW	1	b	28.31	-87	40	38	+7	N	4	o	"	40	28	c. bc. sq. org	"	"	0.32		
Leith...		28.85	35	SE	2	o	28.33	-88	39	36	+2	NW	4	c	"	40	34	c. o. rg	"	"	0.67		
North Shields		28.93	38	S	3	r	28.09	-117	38	38	+2	NW	7	r	"	42	33	c. r	"	"	0.68		
Spurn Head...																							
Yarmouth...		29.12	42	S	3	ot	28.37	-91	43	41	+4	SW	8	cq	"	43	38	bc. or. c. q	"	"	0.50		
Clacton-on-Sea...		29.01	44	S	5	r	28.59	-74	43	39	+1	WSW	8	bc	"	50	38	o. c. org	"	"	0.37		
Nottingham...		28.85	41	SE	4	r	28.39	-96	41	38	+4	W	9	o	"	52	36	b. om. or	"	"	0.67		
Bath...		28.95	54	SW	3	r	28.78	-66	42	38	-1	W	6	b	"	54	41	o. r	"	"	0.90		
Oxford...		28.81	53	SW	7	r	28.72	-73	39	35	+1	WSW	7	bcq	"	53	38	c. org. bc	"	"	0.36		
London (St. James's Pk)		28.99	53	SW	5	odq	28.67	-71	43	39	0	W.	5	bcq	"	56	41	o. org. c. q	"	"	0.35		
GERMANY, & C.																							
The Scaw (Skagen)		29.21	39	SSE	3	c	28.84	-30	38	36	0	ESE	6	o	"	41	36	"	"	"	0.04		
Fanö...		29.08	38	SE	6	r	28.52	-63	36	36	+2	SSE	10	r	"	38	34	"	"	"	0.24		
Cuxhaven†...																							
The Helder...		29.14	42	S	3	o	28.43	-79	47	42	+4	SW	9	o	"	48	39	"	"	"	0.51		
Brussels...		"	"	"	"	"	28.81	-52	44	41	+2	SW	6	o	"	53	41	"	"	"	0.35		
Berlin†...		29.37	39	NW	2	o	28.99	+04	40	97	+5	SE	3	r	"	40	35	"	"	"	0.39		
Frankfurt†...		29.39	42	SW	5	r	29.04	-15	"	69	"	SW	8	o	"	45	41	"	"	"	0.20		
Munich†...		29.62	39	SW	5	o	29.36	+02	46	80	+8	SW	4	o	"	46	36	"	"	"	0.08		
FRANCE.																							
C. Gris Nez...		29.13	48	S	7	r	28.71	-67	46	42	-1	W	9	c	"	48	45	"	"	"	0.67		
La Hève...		29.26	50	SW	8	r	28.99	-55	45	43	-2	SW	9	r	"	50	41	"	"	"	0.12		
Brest...		29.41	54	SW	8	m	29.18	-49	49	46	-5	WNW	7	b	"	55	46	"	"	"	0.28		
Lorient...		"	54	W	7	f	"	"	49	46	-5	WNW	7	r	"	55	45	"	"	"	0.24		
Rochefort...		29.73	54	WSW	6	f	29.39	-43	52	50	-1	W	7	r	"	55	50	r. f	"	"	0.20		
Biarritz...																							
Paris...		29.41	52	SW	5	o	29.07	-45	47	47	+4	SW	5	r	"	54	43	"	"	"	0.24		
Belfort...																							
Lyons...		29.77	49	S	2	o	29.60	-07	47	42	-5	S	2	c	"	53	44	"	"	"	0.63		
Nice...		29.59	51	Z	0	b	29.65	+20	46	45	-6	Z	0	o	"	63	41	"	"	"	-		
Perpignan...		29.89	59	NW	6	b	29.70	-20	39	37	-18	SW	2	b	"	63	37	"	"	"	-		
Sanguinaire...		29.86	57	W	6	m	29.92	+06	57	54	0	W	5	m	"	61	50	"	"	"	-		
SPANISH PENIN.																							
Corunna...																							
Lisbon...																							
Azores (P. Delgada)...																							
" Horta...		30.39	59																				

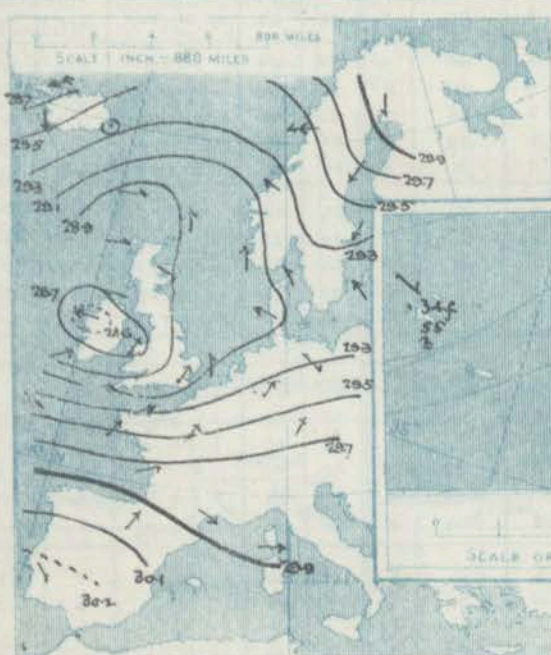


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A.M. YESTERDAY.

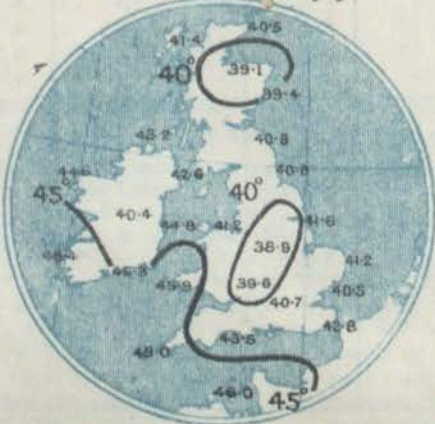


6 P.M. YESTERDAY.



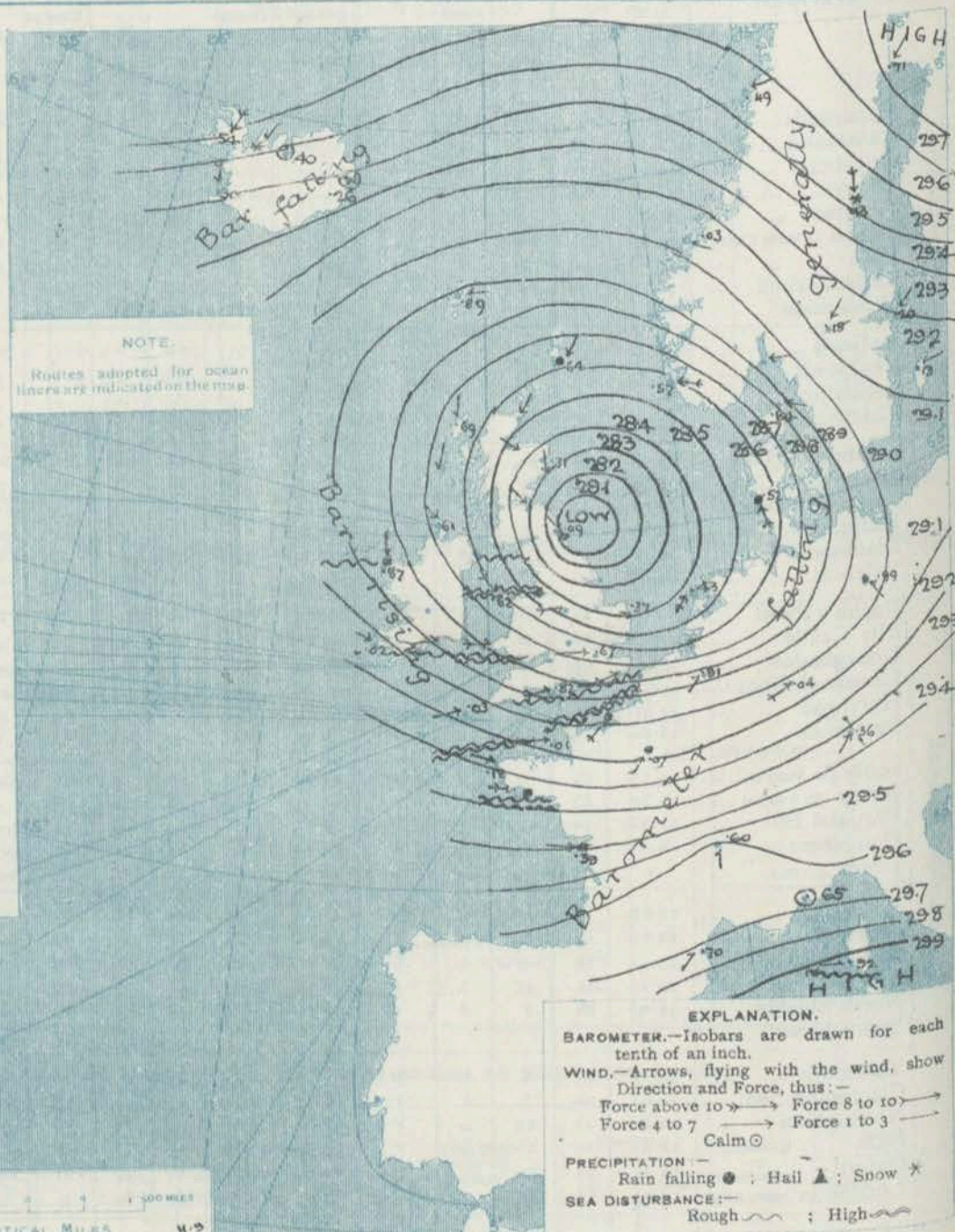
AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
NOVEMBER-DECEMBER.

(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Friday, WEATHER 3<sup>rd</sup> Dec.

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

In the course of the past night an exceptionally deep cyclonic disturbance has crossed the country from the Atlantic to the North Sea, and the barometer is now at nearly 28 ins. at the mouth of the Tyne, and below 29 ins. over the British Isles generally, the Low Countries, North Germany and Southern Norway. At the Azores the barometer stands above 30.5 ins. The gradient is very steep all round.

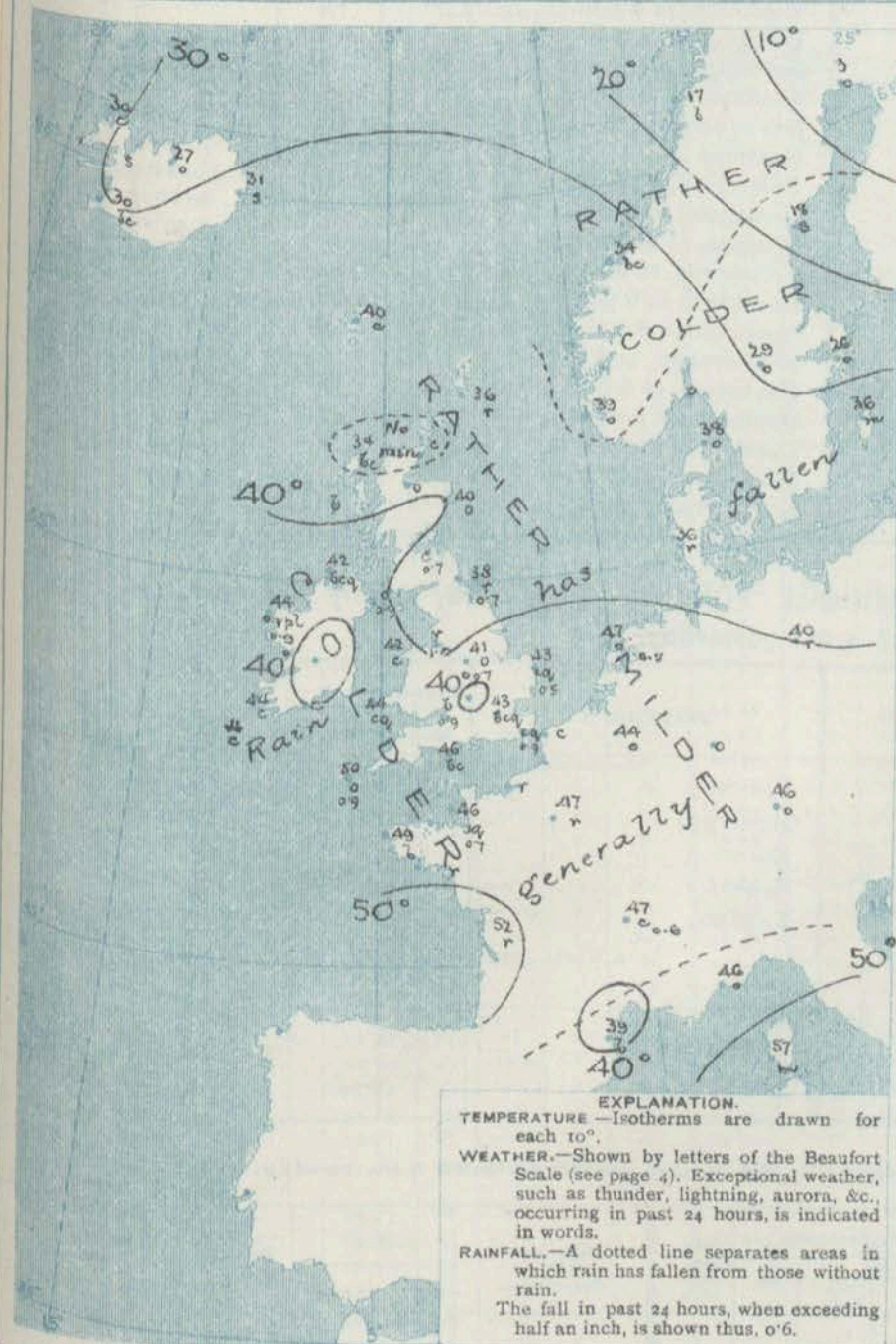
The winds show a complete cyclonic circulation round the pressure minimum, and strong winds to a strong or whole gale are reported extensively. Over the British Isles temperature ranges from 34° at Stormoway to 50° at Sully; over the Western portion of the Continent from 40° at Berlin to 52° at Rochefort; in Scandinavia from 3° at Haparanda to 39° at Stussnevaes; and in Iceland from 27° to 31°. The weather is in a rough squally state generally, but it is fine and clear at present in several localities. Rain is falling at various home and foreign stations, snow at Hemsland and in the east of Iceland. A violent sea is running on the French side of the Channel, and on many other coasts it is rough to very high, but only slight round the north of Scotland and on the Norwegian coast.



# CHARTS

3rd December, 1909.

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY



### NOTES ON YESTERDAY'S WEATHER

During yesterday's temperature rose to 58° at Lough, and to 55° at Sully, and in London, but at some northern stations it did not exceed 40°. In the night Thain registered a shade minimum of 23°. Heavy rain has fallen generally, as much as an inch at Liverpool. Thain reports 4.6 hours of bright sunshine, and Stormovoy 3.3 hours, nearly all other places none. Wireless reports show that ships experienced W. and N.W. winds strong to a whole gale and rainy weather as far west as the 18th meridian.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The conditions remain of a very unstable type. The barometer has again become very unsteady on the Kerry coast, and it is probable therefore that a disturbance of a secondary character will make its appearance there in the course of the day.

## FORECASTS

For the 24 hours commencing at NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { *T<sub>6</sub><sup>4</sup> and T<sub>6</sub><sup>8</sup> winds, increasing, a gale at times in places; squally, changeable, some rain, sleet or snow; rather cold.*
- 1 { }
- 2 { }
- 3 { *Wind between S.W. and T<sub>6</sub><sup>8</sup>, strong to a gale, then moderating; squally, changeable, rain at times; moderate temperature.*
- 4 { }
- 5 { *Wind between T<sub>6</sub><sup>8</sup> and T<sub>6</sub><sup>4</sup>, strong to a gale in places; squally, changeable, some rain, sleet or snow; rather cold.*
- 6 { }
- 7 { *Same as Nos. 2 to 5.*
- 8 { }
- 9 { *T<sub>6</sub><sup>8</sup> to S.W. winds, fresh to strong or high, a gale in places; squally, changeable, some rain; moderate temperature.*
- 10 { }

### II WESTERN CHANNEL AND BAY.

*T<sub>6</sub><sup>8</sup> and S.W. winds, strong to a gale, moderating; very high sea and swell; squally, changeable, some showers; moderate temperature.*

### FORECAST DISTRICTS.

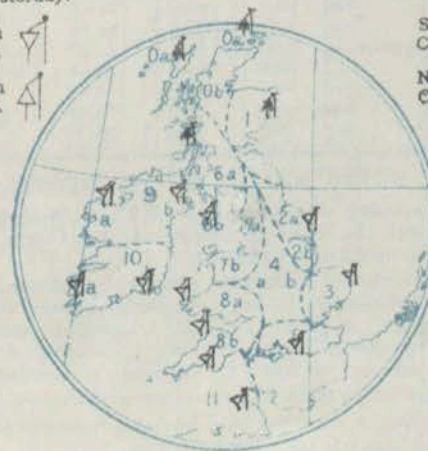
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

Signals hoisted this morning.

South Cone.  
North Cone.

South Cone.  
North Cone.





3rd December, 1909.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max. °	Min. °					Max. °	Min. °			
Oban, to 6 p.m. ...	44	33	o	0.1	0.06	Werthing, to 6 p.m. ...	51	39	o. r	0.0	0.08
Dublin (City), to 4 p.m. ...	45	39	b. or. r	"	0.37	Brighton, to 6 p.m. ...	50	42	"	0.0	0.01
Rossall Beach, to 6 p.m.	43	37	or	"	0.55	Seaford, to 6 p.m. ...	51	43	o. r	0.0	0.01
Blackpool, to 9 p.m. ...	44	36	or	0.0	0.72	Eastbourne, to 6 p.m. ...	"	"	"	0.0	0.21
Southport, to 9 p.m. ...	47	37	op. o. r	0.0	0.61	Bexhill-on-Sea, to 9 p.m.	50	41	"	0.0	0.21
Rhyl, to 6 p.m. ...	46	31	o. c. r. o	0.0	0.26	Hastings ...	"	"	"	0.2	0.12
Colwyn Bay, to 6 p.m. ...	46	42	b. c. p. o	0.0	0.30	Folkestone, to 6 p.m. ...	50	40	o. r	0.5	0.02
Llandudno, to 9 p.m. ...	51	40	o. or	0.0	0.40	Ramsgate, to 6 p.m. ...	"	"	"	0.0	0.10
Bettws-y-Coed, to 6 p.m.	46	38	c	0.0	"	Margate, to 6 p.m. ...	46	41	o. r	0.0	0.31
Towyn, to 6 p.m. ...	58	43	o. r	0.0	0.40	Felixstowe, to 6 p.m. ...	45	40	"	0.0	0.25
Aberystwyth, to 6 p.m. ...	50	43	"	0.0	0.32	Lowestoft, to 6 p.m. ...	42	37	o. c. o. r	0.2	0.15
Plymouth, to 9 p.m. ...	"	"	"	"	"	Skegness, to 6 p.m. ...	41	37	b. c. r	1.4	0.05
Torquay, to 6 p.m. ...	54	45	"	0.0	0.06	Scarborough, to 9 p.m. ...	42	35	o. or	0.0	0.24
Weymouth, to 6 p.m. ...	53	45	o. p	0.0	0.05	Harrogate, to 6 p.m. ...	40	33	p. b. o. r	0.0	0.34
Bournemouth, to 6 p.m. ...	53	42	o. d. r	0.0	0.04	Buxton, to 6 p.m. ...	39	33	o. o. or m	0.0	0.61
Southsea, to 6 p.m. ...	52	43	"	0.0	0.03	Darwen, to 9 p.m. ...	40	33	c. o. r	0.0	0.46
Bognor, to 6 p.m. ...	51	41	o. d. r	0.0	0.27	Manchester, to 9 p.m. ...	"	"	"	"	"
						Birmingham, to 9 p.m. ...	52	37	o. r	0.0	"

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.		STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.					Max.	Min.		
Madeira ... .. 2nd Decr., 1909.	"	"		Ina.		Utrecht ... .. 2nd Decr., 1909.	"	"	r . m	Ina. 0.39
Marseilles ... ..	52	48	o . o	0.65		Groningen ... ..	41	36	o . o	0.16
Malta ... ..	63	55	c . c	0.75		Zurich... ..	"	"	o . r	0.39
Algiers... ..	61	50	c . c	0.32		Geneva ... ..	"	"	r . r	1.26
Tunis ... ..	63	37	c . o	0.20		Lugano ... ..	"	"	o . r	0.25
Palermo ... ..	65	46	o . c	-		Berne ... .. 1st Decr., 1909.	1.00 p.m. 43	1.00 p.m. be		Measured 7.30 a.m. 0.12
Naples... ..	56	49	r . v	0.39		Coire ... ..	36	"	o	0.04
Brindisi ... ..	56	40	bc . b	-		Castasegna... ..	34	"	s	0.35
Rome ... ..	56	47	o . o	0.55		Davos ... ..	30	"	s	0.04
Vienna... ..	?	?	o . o	-						
St. Petersburg ... ..	32	14	o . o	0.24						

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Dis- turb- ance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dirce.	Force.		Air.	Wet Bulb.	Sea.			Lat.	Long.		Dirce.	Force.	
	0	0	Ins.				0	0	0			0	0	Ins.			
<u>Isatamis</u> { 30th Dec 4am	50N	29W	30.07	WNW	6.7	-	-	-	-	-	<u>Virginian</u> { 2nd Dec. 3pm	51N	13W	29.35	NW	10.11	-
" 7am	50N	31W	30.10	W	6.7	C	-	-	-	-	" 6pm	51N	17W	29.27	NW	10.11	-
<u>Archer</u> { 30th 3pm	51N	22W	29.45	WSW	6.7	-	-	-	-	-	" 2nd ... 4am	51N	17W	29.24	NW	8.9	-
" 6pm	51N	23W	29.94	W	6.7	0	-	-	-	-	" 7am	51N	11W	29.25	WNW	10.11	-
<u>Sapland</u> { 30th 3pm	50N	20W	29.90	W	6.7	-	-	-	-	-							
" 6pm	50N	21W	29.93	W	6.7	0	-	-	-	-							
<u>Zealand</u> { 30th 4am	49N	31W	30.15	W	4.5	-	-	-	-	-							
" 7am	49N	30W	30.16	WSW	4.5	0	-	-	-	-							
" 3pm	49N	27W	30.13	W	6.7	-	-	-	-	-							
" 6pm	49N	25W	30.13	W	6.7	0	-	-	-	-							
" 1st Dec 11am	49N	25W	30.08	WSW	6.7	-	-	-	-	-							
" 7am	49N	21W	30.06	WSW	6.7	0	-	-	-	-							
" 9pm	49N	17W	29.99	W	6.7	-	-	-	-	-							
" 6pm	49N	16W	29.93	W	6.7	bc	-	-	-	-							
" 4am	49N	12W	29.78	WSW	8.9	-	-	-	-	-							
" 7am	49N	11W	29.57	WSW	8.9	-	-	-	-	-							

W. N. SHAW, (*Director.*)

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

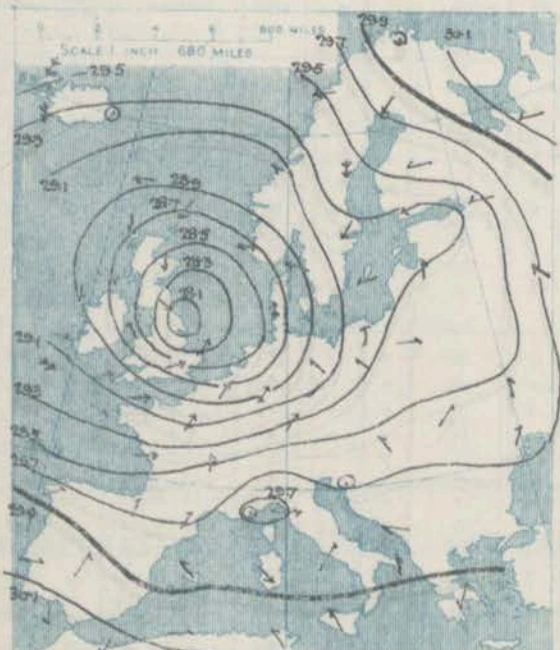
Saturday  
4th December 1909.

STATIONS.	YESTERDAY EVENING.						THIS MORNING.										PAST 24 HOURS.				
	BAROM.		TEMP.		WIND.		BAROMETER.		TEMPERATURE.			WIND.		Force (0 to 12).	Weather.	Sea (0 to 9).	TEMP.		Weather.	Sun-shine.	Rainfall.
	At 32° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Dir.	Force (0 to 12).	Weather.	At 32° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Dir.	Force (0 to 12).	Weather.				Max.	Min.			
	Ins.					Ins.	Ins.													Hours.	Ins.
SCANDINAVIA.	Haparanda...	29.36	17	NE	6	0	29.11	-6.0	21	21	+18	SE	6	5	*	21	1	*	*	*	?
	Hernösand...	29.07	17	N	4	0	28.71	-7.2	36	35	+18	2	0	0	*	?	?	*	*	*	0.35
	Stockholm...	28.78	33	SE	6	5	28.79	-4.1	39	36	+13	SSW	8	0	*	39	25	*	*	*	0.79
	Wisby...	28.81	47	SE	8	7	28.97	-1.6	42	39	+6	SW	8	0	*	47	32	*	*	*	0.24
	Karlstad...	28.60	29	ESE	6	0	28.50	-6.8	38	36	+9	S	8	0	*	38	28	*	*	*	0.32
	Færder (X'ania Fjord)	28.35	34	E	8	5	28.38	-6.2	33	32	-1	WSW	6	0	4	34	28	*	*	*	0.55
	Bodø...	29.23	20	E	8	0	28.91	-1.38	23	21	+6	E	6	0	2	?	?	*	*	*	-
	Christiansund	28.70	28	NE	7	0	28.40	-6.3	31	?	-3	NE	4	0	3	34	27	*	*	*	-
ICELAND & FAEROE.	Isafjord...	29.50	29	NE	6	5	29.62	+0.8	23	*	-7	NE	9	5	*	*	*	*	*	*	*
	Reykjavik...	29.24	31	N	7	0	29.32	+0.2	31	*	+1	N	10	6	5	*	*	*	*	*	*
	Seydisfjord...	29.25	32	NE	3	0	29.10	-1.6	30	*	-1	N	6	5	*	*	*	*	*	*	*
	Thorshavn...	28.84	38	NE	3	0	28.79	-1.0	32	*	-8	N	2	6	5	*	*	*	*	*	*
BRITISH ISLANDS.	Sumburgh Head	28.52	38	NNE	6	0	28.53	-1.1	35	34	-1	N	4	0	5	44	34	r. o	*	*	0.18
	Stornoway...	28.70	36	NNW	5	0	28.80	+1.1	36	35	+2	N	4	0	4	39	32	bc. b. shp. c	2.7	*	0.07
	Castlebay (Baera Is.)	28.73	40	N	2	bc	28.82	+1.3	39	36	+1	NNE	2	0	2	43	36	bc. b. shp. c	4.6	*	0.01
	Malin Head	28.76	40	NNW	3	gp	28.77	+1.6	40	39	-2	NW	2	0	2	43	37	org. bcq.	*	*	0.18
	Blacksod Pt.	28.94	44	W	6	org. hp	28.87	0.0	39	36	-5	W	3	0	2	45	35	org. shp.	*	*	0.34
	Valencia...	29.12	45	W	5	c	28.87	-1.5	39	37	-5	N	2	0	5	47	38	bc. b. shp. c	1.2	*	0.38
	Roche's Point	29.10	41	NW	4	bc	28.80	-1.6	38	38	-2	NW	3	0	2	45	37	cap. bc. c	*	*	0.12
	Birr Castle	28.96	38	SW	3	bc	28.82	-0.5	27	26	-10	2	0	0	2	43	25	p. c. bc	1.3	*	0.01
	Donaghadee	28.76	37	SW	4	0	28.80	+2.4	33	33	-7	SW	3	0	2	45	32	bc. bc. bc	*	*	0.03
	Liverpool Obsy...	28.77	41	WSW	6	c	28.78	+3.3	35	34	-3	S	3	0	3	48	34	org. bcq. org.	1.0	*	0.59
	Holyhead...	28.82	43	WNW	8	org	28.75	+1.3	40	38	-2	NW	2	0	2	44	38	c. org	*	*	0.02
	Pembroke (St. Ann's Hd.)	29.00	45	W	6	bc	28.69	-0.9	36	36	-8	NE	3	0	5	47	34	cap. eq. r. l.	2.9	*	0.58
	Scilly (St. Mary's)	29.21	47	WNW	7	rn	28.83	-2.0	46	44	-4	W	6	0	5	51	46	o. rn	1.0	*	0.42
	Jersey (St. Aubin's)	29.21	46	WNW	6	0	29.28	-0.3	46	44	0	WSW	7	0	6	50	44	bc. b. shp. c	3.0	*	0.54
	Portland Bill	29.04	47	W	7	bc	28.76	-0.6	47	46	+1	SW	6	0	5	48	46	c. bc	3.2	*	0.08
	Dungeness...	28.95	44	WSW	7	bc	28.94	+2.5	46	44	+1	WSW	6	0	5	47	41	cq. bcq. l.	3.6	*	0.09
	Dover...	*	*	*	*	*	28.93	+1.5	44	43	+3	SSW	6	0	6	46	38	bc. c. org	5.1	*	0.08
	Wick...	28.59	39	NE	5	0	28.67	+1.3	34	32	-5	NE	1	0	3	40	30	org. org	0.0	*	0.53
	Nairn...	28.61	37	WNW	3	0	28.72	+2.2	33	32	-4	W	1	0	1	37	32	org. org. org	0.0	*	0.16
	Aberdeen...	28.52	36	NW	3	c	28.71	+4.0	35	34	-5	W	3	0	4	40	34	org. org. org	0.0	*	0.38
	Leith...	28.58	38	W	2	0	28.74	+4.1	34	32	-5	W	2	0	4	40	34	o. org	0.1	*	0.01
	North Shields	28.57	37	WNW	6	c	28.74	+6.5	35	34	-3	SW	2	0	4	40	33	o. csp	0.1	*	0.10
	Spurn Head	28.66	40	WSW	7	bc	28.83	+8.0	35	34	-6	SSW	4	0	4	42	34	bc. b. shp. c	*	*	-
GERMANY, & C.	Yarmouth...	28.77	40	W	bcq	bcq	28.93	+5.6	35	34	-8	SW	3	0	4	44	35	bc. bcq	5.3	*	-
	Clacton-on-Sea	28.89	41	WSW	5	bc	28.94	+3.5	42	40	-1	S	5	0	5	45	38	bcq. b. 2	5.4	*	-
	Nottingham...	28.79	39	W	5	0	28.83	+4.4	34	34	-7	SW	1	0	4	42	33	org. cp. o	1.1	*	0.09
	Bath...	29.00	44	W	1	bc	28.75	-0.3	39	38	-3	SE	2	0	4	47	37	-	3.3	*	0.31
	Oxford...	28.99	40	WSW	5	bc	28.78	+0.6	38	37	-1	SE	2	0	4	44	35	bc. bcq. or	*	*	0.15
	London (St. James's Pl.)	28.94	42	WSW	5	bc	28.89	+2.2	44	39	-2	SSW	3	0	4	46	38	bcq. eq. b. c	4.3	*	0.01
	The Scaw (Skagen)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Fanø...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
FRANCE.	Cuxhaven...	28.68	43	SW	9	0	28.98	*	41	87	*	SW	9	0	*	48	39	*	*	*	0.16
	The Helder...	28.77	44	W	8	bc	28.97	+5.4	43	40	-4	WSW	5	0	*	47	39	*	*	*	0.16
	Brussels...	*	*	*	*	*	29.17	+3.6	41	38	-3	SW	5	0	*	52	39	*	*	*	0.16
	Berlin...	29.09	44	SW	4	bc	29.30	+3.1	41	73	+1	W	5	0	*	55	41	*	*	*	0.12
	Frankfurt...	29.23	46	SW	7	bc	29.37	+3.3	41	80	?	SW	7	0	*	50	37	*	*	*	0.12
	Munich...	29.45	43	W	5	0	29.59	+2.3	38	90	-8	SW	2	0	*	50	37	*	*	*	0.12
	C. Gris Nez	29.00	45	W	9	bc	29.04	+3.3	43	41	-3	S	7	0	7	48	39	*	*	*	0.16
	La Hève...	29.25	44	WSW	9	0	29.07	+0.8	42	41	-3	S	7	0	7	48	39	*	*	*	0.04
SPANISH PENIN.	Brest...	29.34	48	WNW	8	c	29.00	-1.8	48	47	-1	WNW	8	0	8	52	45	*	*	*	0.35
	Lorient...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.16
	Rochefort...	29.53	50	SW	7	r	29.36	-0.3	49	45	-3	WSW	6	0	6	57	45	c. r	*	*	0.12
	Biarritz...	29.76	52	SW	9	r	29.66	-0.1	49	47	-7	SSW	4	0	6	61	45	*	*	*	0.12
	Paris...	29.25	44	SW	4	bc	29.28	+2.1	41	39	-6	S	4	0	*	53	39	*	*	*	0.16
	Belfort...	29.43	40	WSW	6	r	29.58	+1.0	39	36	-9	WSW	6	0	*	54	36	*	*	*	0.16
	Lyons...	29.55	47	SSW	5	0	29.70	+1.0	38	35	-9	SE	1	0	*	55	38	*	*	*	0.16
	Nice...	29.59	50	2	0	0	29.65	0.0	45	38	-1	2	0	0	4	55	45	*	*	*	-
SPANISH PENIN.	Perpignan...	29.67	51	NW	5	0	29.76	+0.6	37	35	-2	W	1	0	6	57	36	*	*	*	-
	Sanguinaire...	29.88	60	SW	5	0	29.84	-0.3	54	52	-3	W	5	0	6	63	46	*	*	*	-
	Corunna...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
SPANISH PENIN.	Lisbon...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-
	Azores (P. Delgada)...	30.27	56	NW	2	bc	30.22	-1.2	57	52	+2	W	3	0	2	64	55	*	*	*	-

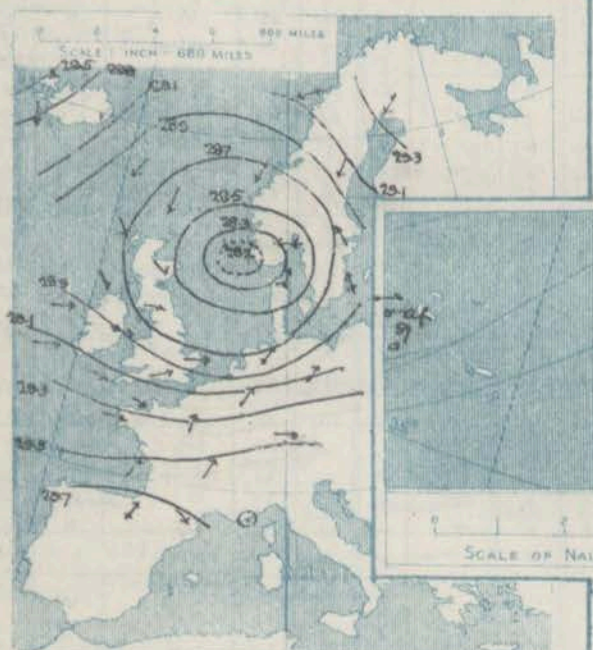


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

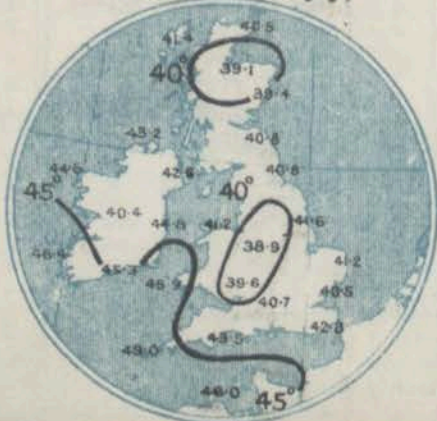
7 A.M. YESTERDAY.



6 P.M. YESTERDAY.

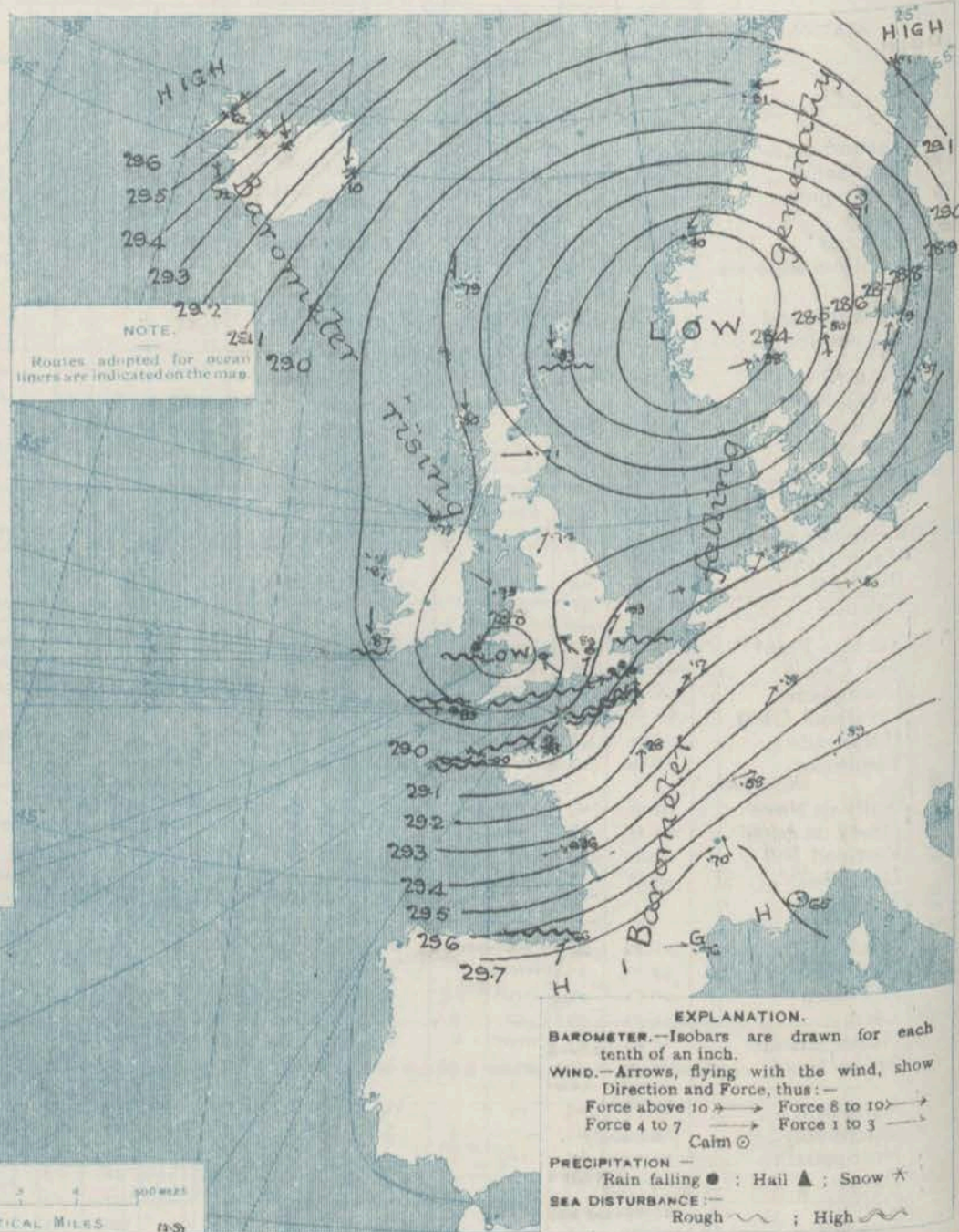


AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
NOVEMBER-DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Saturday. **WEATHER** 4<sup>th</sup> Dec<sup>r</sup>

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

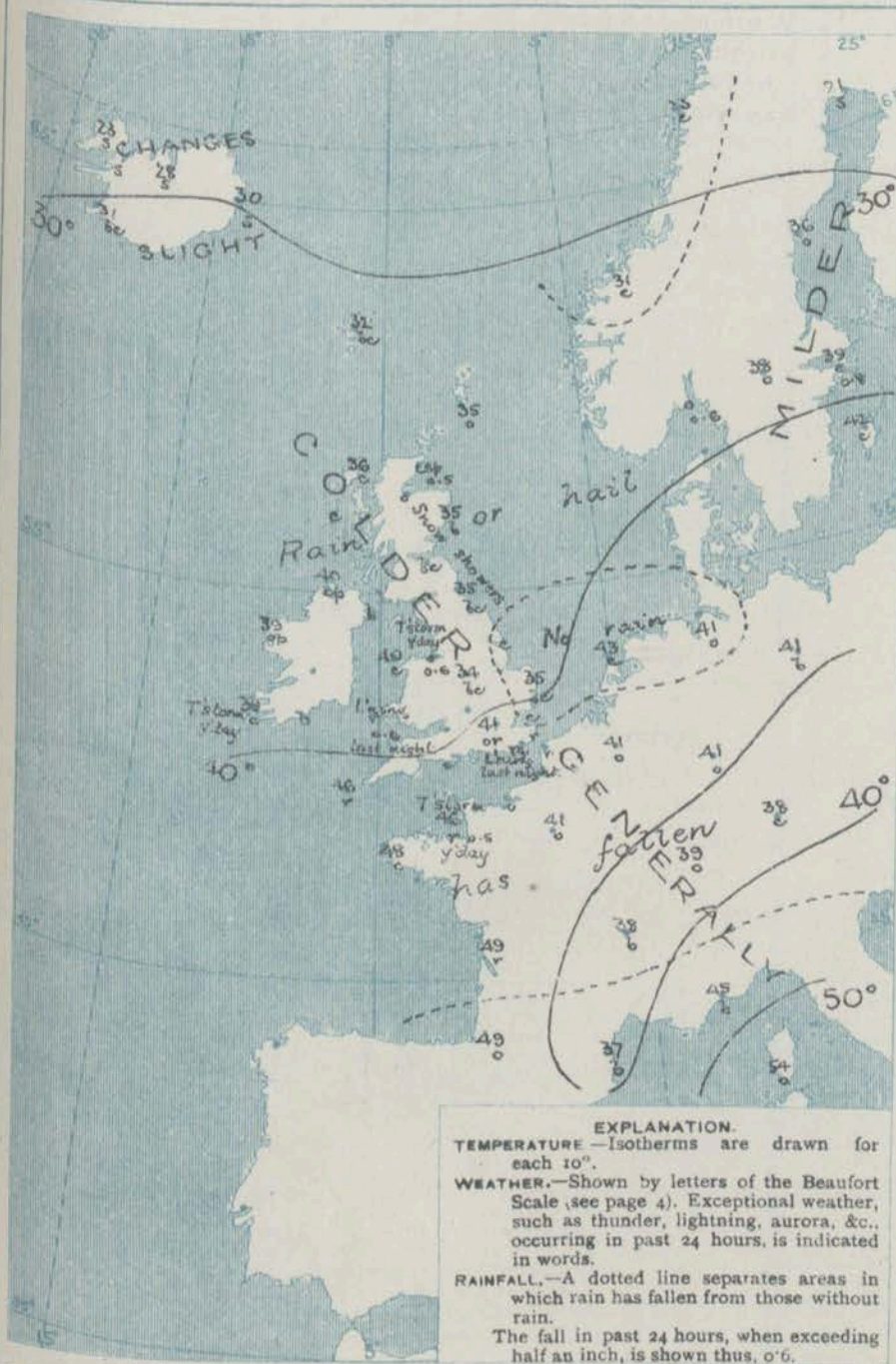
The very deep cyclonic system of yesterday is now centred over Southern Norway, where the barometer is below 28.4 ins. In the course of the night a small secondary depression has advanced quickly from the Atlantic, and it is now centred near the mouth of the Severn, where pressure has again fallen below 28.7 ins. Pressure is at about 30.25 ins. at the Azores. The gradient is very slight over the northern and western parts of these islands, rather steep elsewhere.

The winds show complete cyclonic circulations round the two pressure minima, the S.W. current, extending from the Bay of Biscay to Southern Sweden, being strong to a gale in force. In Ireland and most parts of Britain light variable breezes prevail. At the home stations temperature ranges from 27° at Birn Castle to 47° at Portland Bill; in the western parts of the Continent from 37° at Perpignan to 49° at Rochefort; in Scandinavia from 21° at Haparanda to 42° at Wisby; and in Iceland from 23° to 31°. The weather is fine and clear locally in the British Isles and in the south of France, but generally it is very cloudy or overcast, rain is falling over Southern England, the north of Ireland, and locally in France, snow at Wick, and in most parts of Iceland. A very high sea is running on the Bay of Biscay, a high sea along the north of France, rough or rather rough on the south coast of England, moderate to smooth in most other regions.



# CHARTS 4<sup>th</sup> December, 1909.

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



### NOTES ON YESTERDAY'S WEATHER.

During yesterday temperature rose to between 50° and 53° at various stations in England and Wales, but several northern districts did not exceed 40°; rain 37". In Central Ireland the night minimum has been as low as 25°. Rain has fallen generally in several places, some snow in the north. Locally the rainfall has exceeded half an inch. Thunderstorms occurred at Valentia, Blackpool and Jersey, and lightning has been seen at several northern stations. The bright sunshine records ranged upwards to more than three hours at Belfast. Wireless reports show that ships experienced N.W. gales and cloudy weather as far west as the 10th meridian.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The conditions remain of a disturbed cyclonic type. The small secondary depression on the Bristol Channel will occasion rain over the southern districts, and high winds or gales on the Channel, as it moves eastward.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { Wind between S.W. and N.E., light to moderate; changeable, some sleet or snow in places; cold.
- 1 { Variables breezes, mainly S.W. to S.E.; fair to changeable, some showers of rain or sleet; cold.
- 2 { S.W. and variable breezes, light to moderate; changeable, some rain; rather cold.
- 3 { S.W. to W. and N.W. winds, strong to a gale on coast, moderating later; rainy, fairer later; cold.
- 4 { Same as Nos. 0 and 1.
- 5 { Same as No. 2.
- 6 { E. to N.E. and N.W. breezes, light; rainy then fair; cold.
- 7 { Same as No. 5.
- 8 { Light breezes, mainly N.E., backing later; changeable, rain at times; cold.
- 9 { }  
10 { }

### 11 WESTERN CHANNEL AND BAY.

S.W. to N.W. winds, strong to a gale, moderating; sea high to rough; squally, some rain and local fog; cold.

### FORECAST DISTRICTS.

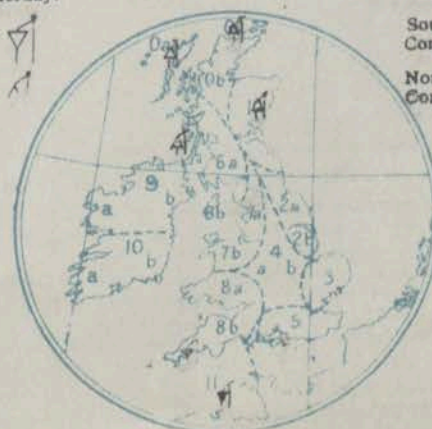
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

Signals hoisted this morning.

South  
Coast.  
North  
Coast.

South  
Coast.  
North  
Coast.





# DAILY WEATHER REPORT.

Saturday, 14th December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	43	34	b. bc. c	4.6	-	Werthing, to 6 p.m. ...	47	40	r. o. c. b. c. o	5.0	0.50
Dublin (City), to 4 p.m. ...	51	36	cqphs. op. c	*	0.46	Brighton, to 6 p.m. ...	46	42	*	5.1	0.63
Rossall Beach, to 6 p.m. ...	47	37	or. eg	*	0.69	Seaford, to 6 p.m. ...	51	43	-	4.3	0.68
Blackpool, to 9 p.m. ...	49	35	o. ar. phil	2.2	0.84	Eastbourne, to 6 p.m. ...	51	43	*	3.0	0.70
Southport, to 9 p.m. ...	48	38	or. bcq. sh. orq	1.6	0.51	Bexhill-on-Sea, to 9 p.m. ...	50	40	-	3.4	0.41
Rhyl, to 6 p.m. ...	53	36	o. r. bc	1.6	0.77	Hastings ...	*	*	*	4.4	*
Colwyn Bay, to 6 p.m. ...	43	39	h. q. bc	1.0	0.67	Folkestone, to 6 p.m. ...	50	39	r. b. l. bc	5.5	0.34
Llandudno, to 9 p.m. ...	51	38	oth. or. o	1.0	0.59	Ramsgate, to 6 p.m. ...	*	*	*	6.5	0.31
Bettws-y-Coed, to 6 p.m. ...	47	38	c. b. bc. c	2.0	*	Margate, to 6 p.m. ...	46	41	-	5.1	0.30
Towyn, to 6 p.m. ...	45	40	t. bcq. c	2.4	0.24	Felixstowe, to 6 p.m. ...	50	40	*	7.1	0.17
Aberystwyth, to 6 p.m. ...	48	42	*	0.7	0.11	Lowestoft, to 6 p.m. ...	51	39	o. or. c	4.1	0.45
Plymouth, to 9 p.m. ...	54	42	bcph. bc. bc	3.5	0.18	Skegness, to 6 p.m. ...	41	37	bc. r. c. b	0.1	0.77
Torquay, to 6 p.m. ...	43	42	*	3.7	0.72	Scarborough, to 9 p.m. ...	46	36	or. o	0.0	0.84
Weymouth, to 6 p.m. ...	43	41	q	3.2	0.31	Harrogate, to 6 p.m. ...	40	33	or. c. q. b	2.1	1.70
Bournemouth, to 6 p.m. ...	45	40	c. bc. r	3.4	0.25	Buxton, to 6 p.m. ...	46	32	or. c. os	0.0	0.92
Southsea, to 6 p.m. ...	45	42	*	5.5	0.43	Darwen, to 9 p.m. ...	47	33	or. b. sh. os	0.2	1.00
Bognor, to 6 p.m. ...	47	43	b. bc. c. bc. b	5.1	0.44	Manchester, to 9 p.m. ...	50	37	or. bc. sh. or	0.8	0.13
						Birmingham, to 9 p.m. ...	51	36	r. o. c. b	2.8	0.13

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ... 3rd Dec., 1909	63	52	b. o	Ins.	Utrecht ... 3rd Dec., 1909	48	39	o. o	0.54
Marseilles ...	61	43	b. b	-	Groningen ...	50	37	o. o	0.67
Malta ...	62	59	b. bc	0.04	Zurich ...	*	*	o. b	0.32
Algiers ...	64	52	b. bc	-	Geneva ...	*	*	r. b	0.63
Tunis ...	63	43	bc. bc	-	Lugano ...	*	*	b. o	0.04
Palermo ...	63	55	b. c	-	Berne ... 3rd Dec., 1909, 1.30 p.m.	39	*	r	Measured 7.30 a.m. 0.81
Naples ...	56	52	r. o	0.20	Coire ...	37	*	o	0.91
Brindisi ...	58	42	o. b	-	Castasegna ...	39	*	o	?
Rome ...	59	44	c. b	0.16	Davos ...	32	*	o	0.43
Vienna ...	46	36	c. f	0.04					
St. Petersburg ...	30	14	s. o	0.24					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
Virginian 2nd Dec. 4am	51N	22W	29.60	WSW	6.7	-	o	o	*	-	Virginian 7am	51N	21W	29.45	WSW	6.7	r
Philosophia 2nd 4am	49N	31W	29.64	WSW	6.7	-	-	-	-	-	Philosophia 7am	49N	30W	29.68	?	?	o
" 3pm	49N	26W	29.63	NW	10.11	-	-	-	-	-	" 6pm	49N	24W	29.65	NW	10.11	bc
" 3rd 4am	49N	20W	29.63	NW	10.11	-	-	-	-	-	" 7am	49N	18W	29.58	NW	8.9	bc

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.61 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.
- \* Information for these columns is not usually received.
- † The figures in the "wet bulb" column represent the relative humidity.
- ‡ Received too late for insertion in Chart.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.  
W. N. SHAW, (Director.)

SCANDINAVIA.

ICELAND & FAEROE.

BRITISH ISLANDS.

GERMANY, &c.

FRANCE.

SPANISH PENIN.



1909.

# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

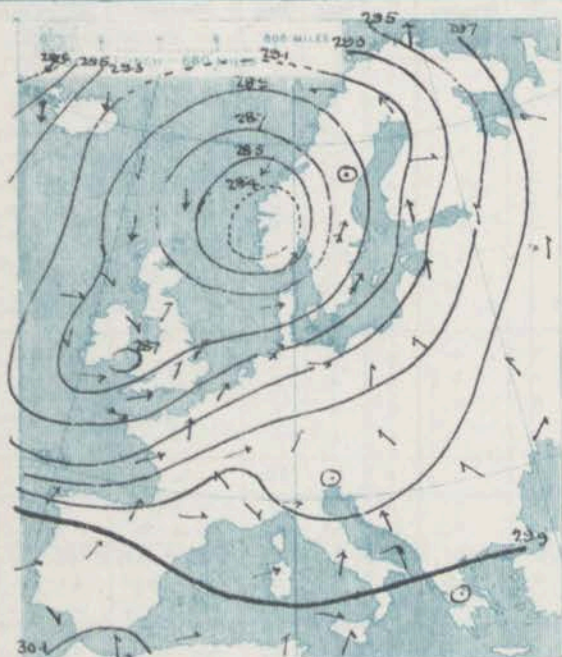
Sunday  
31st December 1909.

STATIONS.		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.				
		Barom.	Temp.	Wind.	Force	Weather.	Barometer.	Temperature.	Wind.	Force	Weather.	Sea	Temp.	Weather.	Sun-shine.	Rainfall.					
		At 8 <sup>30</sup> Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Direc.	(0 to 12).		At 8 <sup>30</sup> Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	(0 to 12).		(0 to 12).	Max.	Min.				
SCANDINAVIA.		Ins.					Ins.	Ins.											Hours.	Ins.	
Haparanda...		29.02	23	S	6	o	29.12	+0.1	35	34	+14	S	6	o		35	9			0.28	
Hernösand...		28.78	37	S	8	r	28.02	+2.1	36	35	o	S	11	bc		29	14			0.04	
Stockholm...		29.10	37	S	4	b	29.05	+2.6	38	37	-1	SSE	6	r		41	32			0.04	
Wisby...		29.14	40	SSW	4	b	29.10	+1.3	41	39	-1	S	4	o		45	37			-	
Karlstad...		28.91	29	WSW	6	o	28.88	+3.8	37	36	-1	SSE	4	o						0.32	
Färder (X'ania Fjord)		28.78	41	SW	6	b	28.73	+3.5	37	26	+4	SE	2	r	2	41	32			0.24	
Bodö...		28.65	30	E	6	o	28.76	-1.5	33	31	+10	S	1	o	1	33	23			-	
Christiansund...		28.56	29	SW	1	c	28.72	+2.2	38	33	+7	SE	1	bc	2	39	30			-	
Skudesnaes...		28.69	29	W	2	c	28.73		35	34		E	2	b	2	39	35			0.32	
ICELAND & FAEROE.																					
Isafjord...		29.71	21	NNE	9	s	29.81	+1.9	16	*	-7	NNE	9	s		*	*			*	
Reykjavik...		29.29	23	N	10	bc	29.26	-0.6	23	*	-8	N	9	b		*	*			*	
Seydisfjord...		29.21	31	NE	5	s	29.26	+1.6	24	*	-6	NE	8	s		*	*			*	
Thorshavn...		28.83	33	N	3	bc	28.88	+0.9	34	*	+2	N	4	c		*	*			*	
BRITISH ISLANDS.																					
Sumburgh Head		28.63	24	M	1	b	28.69	+1.6	37	35	+2	W	2	c	2	37	34	bc, b		0.08	
Stornoway...		28.87	36	NW	4	b	28.95	+1.8	32	31	-4	NW	2	c	4	39	31	c, bc, drp, bc	1.6	0.07	
Castlebav (Barra Id.)		28.93	36	2	o	b	28.99	+1.7	29	35	o	NW	2	c	2	42	32	cp, o, drp, bc, c	1.7	0.17	
Malin Head...		28.91	40	2	o	rl	29.02	+2.5	40	39	o	SW	2	c	3	44	35	bc, og, drp, bc		0.02	
Blacksod Pt. ...		28.98	41	W	3	cp	29.05	+1.8	38	36	-1	W	2	op	2	43	33	bc, bc, bc, bc		0.18	
Valencia...		29.06	38	NE	1	bc	29.09	+2.2	26	35	-3	ESE	2	op	4	44	32	bc, bc, bc, bc	1.0	0.19	
Roche's Point...		29.02	39	NW	3	b	29.10	+2.0	36	35	-2	NW	1	c	2	43	33	bc, bc, c		0.01	
Birr Castle...		28.93	35	2	o	b	29.08	+2.6	29	28	+2	2	o	c	*	41	26	b, c	5.2	-	
Donaghadee...		28.87	41	NNE	3	c	29.04	+2.4	30	30	-3	SSW	2	bc	1	43	29	bc		-	
Liverpool Obsy...		28.85	38	NW	3	bc	29.05	+2.7	37	36	+2	SW	2	c	4	40	34	og, bc, b	0.5	0.13	
Holyhead...		28.89	43	NW	4	c	29.09	+3.4	40	38	o	WNW	3	c	2	44	38	c		0.05	
Pembroke...		28.92	42	NW	4	c	29.10	+4.1	42	40	+6	SW	3	crp	4	45	34	or, og, b, bc	0.9	0.11	
(St. Ann's Hd.)																					
Scilly (St. Mary's)		28.88	46	WNW	5	o	29.17	+3.4	44	42	-2	SW	2	or	5	49	41	or, o	0.7	0.17	
Jersey (St. Aubins)		28.94	44	WNW	5	o	29.23	+2.5	45	42	-1	WNW	4	o	4	48	38	og, drp, og	0.8	0.47	
Portland Bill...		28.83	42	NW	6	c	29.44	+3.8	44	42	-3	W	1	bc	4	48	37	bc, c	2.4	0.09	
Dungeness...		28.70	42	WSW	6	rg	29.16	+2.2	36	34	-10	W	3	bc	4	46	32	crp, rg, o, x	0.0	0.62	
Dover...		*	*	*	*	*	29.26	+2.7	32	31	-12	WNW	1	b	2	44	31	or, or, c, bc	0.4	0.39	
Wick...		28.78	32	NE	1	c	28.86	+1.9	31	30	-3	W	2	s	4	37	27	-		0.10	
Nairn...		28.85	31	W	1	bc	28.90	+1.8	32	31	-1	W	1	b	1	36	30	c, bc, b	1.5	-	
Aberdeen...		28.81	32	WNW	3	b	28.91	+2.0	32	30	-3	WNW	3	b	2	37	31	b, bc, b	2.8	-	
Leith...		28.83	37	W	1	o	28.94	+2.0	31	30	-3	WSW	3	b	*	38	30	c, bc, o, o		-	
North Shields		28.76	35	NW	3	c	28.98	+2.4	30	30	-5	W	3	bc	3	39	26	c, drp	4.1	-	
Spurn Head...		28.70	37	NW	5	o	29.03	+2.0	33	32	-2	W	4	c	3	39	33	op, j, bc, bc		-	
Yarmouth...		28.65	38	WSW	3	omp	29.12	+1.9	31	30	-4	WSW	3	bc	4	43	30	op, drp, bc, bc	0.0	0.45	
Clacton-on-Sea...		28.70	42	SW	4	o	29.15	+2.1	33	32	-9	WNW	3	bc	2	43	32	c, or, c, bc, bc	1.1	0.23	
Nottingham...		28.78	36	NW	3	b	29.10	+2.7	30	29	-4	W	2	b	*	36	28	bc, c, s, o, b	0.0	0.21	
Bath...		28.82	37	NW	2	o	29.05	+3.0	28	28	-11	2	o	b	*	45	27		1.3	0.05	
Oxford...		28.90	35	NW	3	c	29.19	+4.1	32	31	-6	WSW	1	b	*	43	31	r, c, c, s, bc		0.31	
London (St. James's Pk)		28.74	38	NW	2	orop	29.14	+2.5	31	30	-10	WSW	1	bc	*	46	30	or, bc, og, sp, b	1.1	0.38	
GERMANY, & C.																					
The Scaw (Skagen)		28.88	29	WSW	5	b	28.72	+1.3	43	41	+5	SSW	6	o	2	43	37			0.24	
Fanö...		28.73	40	SE	6	r	28.62	-1.5	40	39	-1	S	2	c	*	41	37			0.12	
Cuxhaven†...		28.90	41	S	5	r	28.86	-1.7	40	39	-1	SW	8	odrp	*	43	39			0.12	
The Helder...		28.70	42	SW	7	r	29.03	+0.6	43	39	o	WNW	5	c	3	43	39			0.32	
Brussels...		*	*	*	*	*	29.21	+0.4	35	35	-6	WSW	2	b	*	44	35			0.16	
Berlin†...		29.24	41	SW	3	o	29.13	-1.7	44	41	+3	SW	3	c	*	46	41			-	
Frankfurt†...		29.13	45	S	7	r	29.25	-1.2	41	38	o	SW	5	c	*	48	41			0.04	
Munich†...		29.42	33	SE	4	b	29.38	-2.1	37	30	-6	NW	2	bc	*	43	28			-	
FRANCE.																					
C. Gris Nez...		28.75	44	SW	7	r	29.19	+1.5	39	37	-4	W	5	b	5	46	37			0.67	
La Hève...		28.91	43	SW	9	o	29.20	+2.3	41	38	-1	SSW	5	o	5	50	37			0.28	
Brest...		29.04	45	NW	7	bc	29.24	+2.4	47	44	-1	WNW	4	b	5	50	43			0.16	
Lorient...		?	47	WNW	7	r	?	?	45	43	-2	W	3	r	5	52	43			0.24	
Rochef...		29.18	51	WSW	9	r	29.40	+0.4	43	41	-6	SSE	3	o	*	63	41	r		0.39	
Biarritz...		29.35	56	SW	7	c.	29.61	-0.5	50	47	+1	WNW	8	r	7	57	46			0.47	
Paris...		28.99	45	SSW	6	c	29.30	+0.2	34	33	-7	S	1	b	*	46	34			0.08	
Belfort...																					
Lyons...		29.47	45	S	8	b	29.49	-2.1	42	39	+4	SSW	1	o	*	48	38			0.04	
Nice...		29.72	47	W	5	bc	29.46	-1.9	44	42	-1	E	4	c	5	54	41			0.08	
Perpignan...		29.53	44	2	o	b	29.61	-1.8	41	?	+4	NW	2	o	*	57	32			-	
Sanguinaire...																					
SPANISH PENIN.																					
Corunna...		29.62	54	WSW	7	r	29.70	+0.5	46	45	-4	WNW	3	o	6	57	43			0.28	
Lisbon...		29.89	56	WSW	5	o	29.90	-0.9	59	58	+6	W	4	o	*	59	53			0.04	
Azores (P. Delgada)		30.12	56	WNW	2	b	30.06	-1.1	61	57	+2	W	4	o	3	63	55			-	
" Horta...		30.12	60	W	4	c	30.06	-1.6	59	59	+2	W	4	r	2	64					

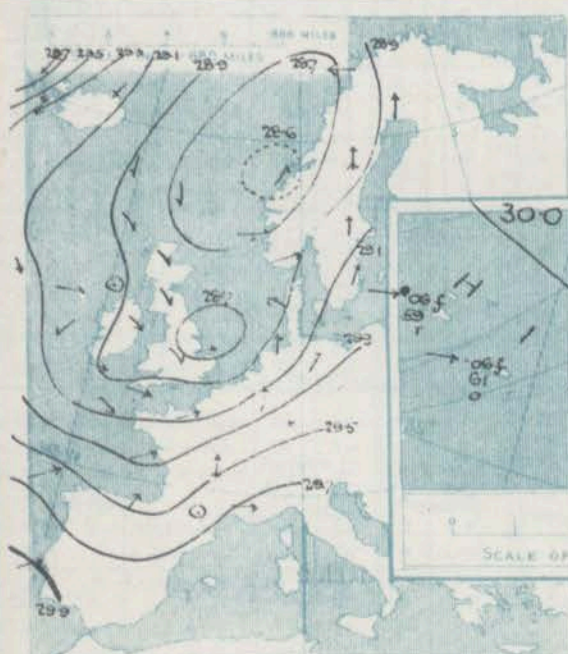


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A.M. YESTERDAY.

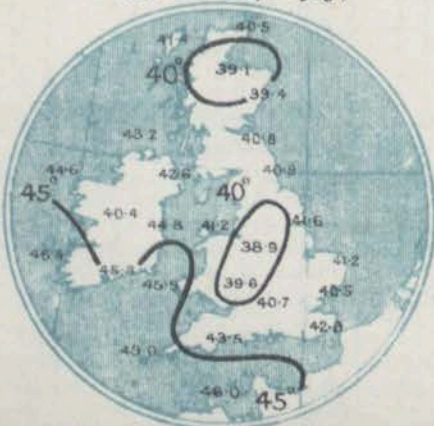


6 P.M. YESTERDAY



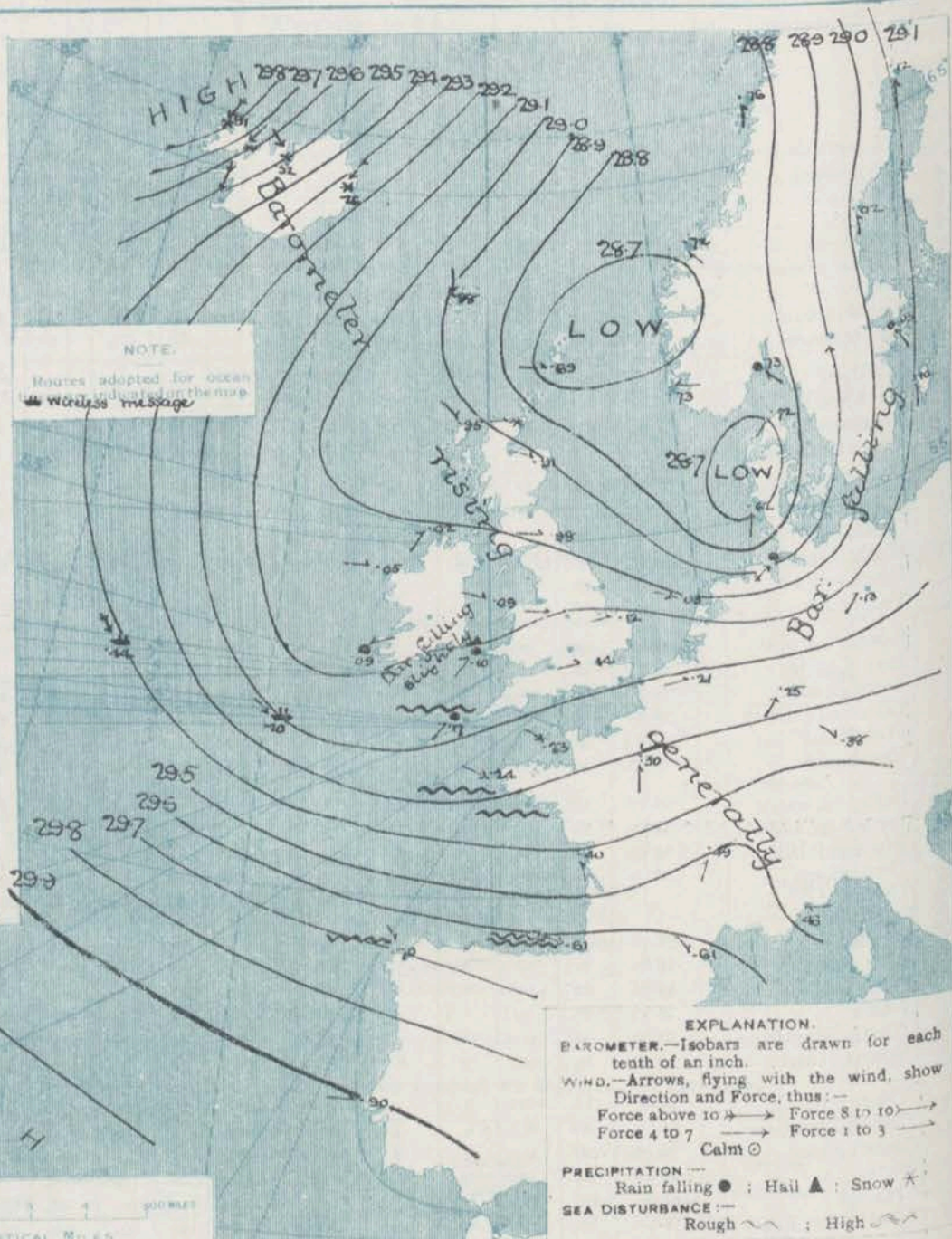
AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
NOVEMBER-DECEMBER.

(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Sunday, WEATHER 5<sup>th</sup> Dec.

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

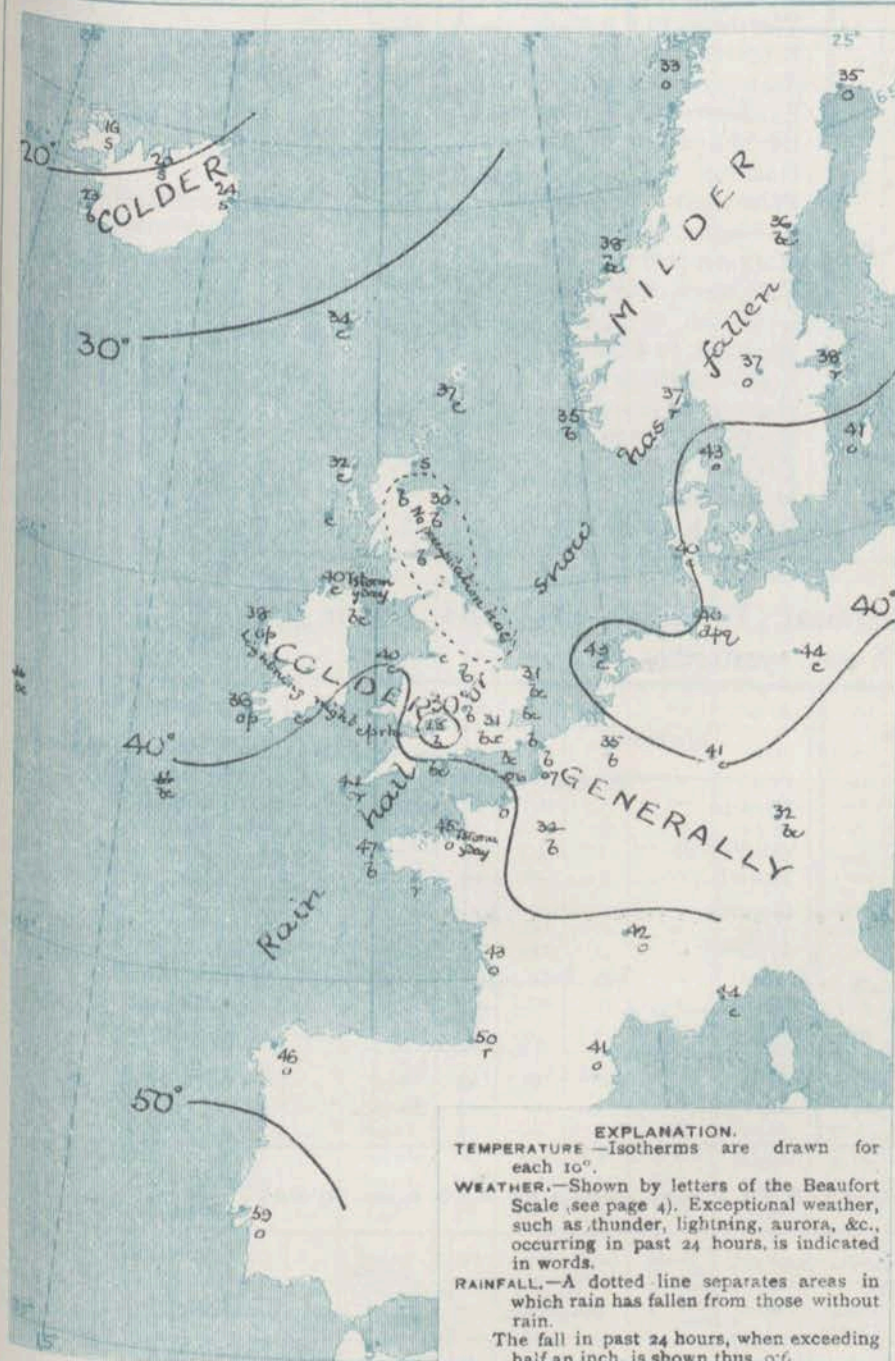
Pressure has increased in the United Kingdom, Scandinavia, and Ireland, but fallen in Germany and the east of France, as well as in Portugal and the Azores. The readings are still below 28.7 ins. in two minima, one over Denmark, and the other off Shetland. The gradient is very slight over this country and its immediate vicinity, steep over Iceland.

Light winds, mainly from the Westward, prevail in these islands, but a moderate to strong southerly breeze is blowing over Sweden and Denmark, a south westerly gale at the mouth of the Elbe, and a westerly gale at Biarritz. A strong to whole gale from North and North East is reported in Iceland. According to a wireless report a strong North-Westerly gale prevails in Lat. 50° N. Long. 21° W. Temperature has fallen generally, risen in northern Scandinavia. In several parts of these islands the readings are 32° or slightly lower, but about 44° on some spots in the extreme south-west. Fine or fair weather prevails over a large portion of this country and also at many stations on the Continent, but hail and rain showers are falling at St. Ann's Head, and showers of rain on the west coast of Ireland while rain is reported in the west of France and at Cuxhaven, Faerder and Stockholm, and snow at Wick and in Zealand.



# CHARTS 5<sup>th</sup> December, 1909.

## 2 TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



## NOTES ON YESTERDAY'S WEATHER.

During yesterday the thermometers remained below 40° in Scotland and the east and north of England, but touched or rose above 45° in the west and south-west. Frost occurred at night in most parts of the Kingdom. In London and at Oxford the minimum on the grass was as low as 23°. Rain sleet or snow has fallen in nearly all parts of England and Ireland, the largest measurement being 0.62 in at Dungeness. Thunder storms were experienced at Malin Head and Jersey, and lightning was seen in some other localities. Bright sunshine was slight generally, but at Birt Castle the record was 5 hours.

## GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { a  
b
- 1
- 2 { a  
b
- 3
- 4 { a  
b
- 5
- 6 { a  
b
- 7 { a  
b
- 8 { a  
b
- 9 { a  
b
- 10 { a  
b

- None issued -

## 11 WESTERN CHANNEL AND BAY.

## FORECAST DISTRICTS.

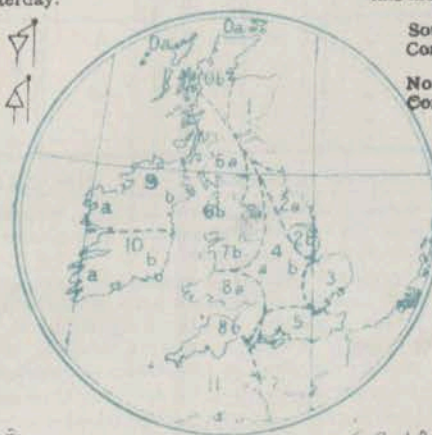
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

Signals hoisted this morning.

South  
Cone.  
North  
Cone.

South  
Cone.  
North  
Cone.



None

issued.



# DAILY WEATHER REPORT.

Sunday, 5th December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. In.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	43	30	z. b	4.9	-	Worthing, to 6 p.m. ...	45	39	v. o	1.4	0.12
Dublin (City), to 4 p.m. ...	39	32	p. bc. f	-	0.03	Brighton, to 6 p.m. ...	-	-	-	0.3	0.50
Rossall Beach, to 6 p.m. ...	43	31	x. c	-	0.10	Seaford, to 6 p.m. ...	47	40	-	-	-
Blackpool, to 9 p.m. ...	42	32	c. bc	1.5	0.07	Eastbourne, to 6 p.m. ...	-	-	-	0.4	0.50
Southport, to 9 p.m. ...	37	31	bc. or. o. bc	0.9	0.12	Bexhill-on-Sea, to 9 p.m. ...	46	42	c	0.1	-
Rhyl, to 6 p.m. ...	41	32	-	0.9	0.21	Hastings ...	-	-	-	0.2	0.36
Colwyn Bay, to 6 p.m. ...	-	-	-	-	-	Folkestone, to 6 p.m. ...	45	37	v. bc. r	0.6	0.54
Llandudno, to 9 p.m. ...	42	35	or. o. o	0.5	0.29	Ramsgate, to 6 p.m. ...	-	-	-	0.6	0.48
Bettws-y-Coed, to 6 p.m. ...	-	-	-	-	-	Margate, to 6 p.m. ...	44	37	-	0.9	0.27
Towyn, to 6 p.m. ...	-	-	-	-	-	Felixstowe, to 6 p.m. ...	45	37	-	-	-
Aberystwyth, to 6 p.m. ...	45	37	-	1.2	0.15	Lowestoft, to 6 p.m. ...	38	33	r. or. s	0.0	0.43
Plymouth, to 9 p.m. ...	46	39	bcp. bcw	2.5	0.17	Skegness, to 6 p.m. ...	41	33	c. or. s	2.0	0.01
Torquay, to 6 p.m. ...	45	41	-	3.3	0.17	Scarborough, to 9 p.m. ...	36	31	b. bcp. cm. b	0.0	0.01
Weymouth, to 6 p.m. ...	46	37	q. c. bc	2.4	0.13	Harrogate, to 6 p.m. ...	34	30	bc. o. b	0.0	0.51
Bournemouth, to 6 p.m. ...	46	39	cl. c. bc. r	2.9	0.24	Buxton, to 6 p.m. ...	36	28	or. s. b. bc	0.0	0.40
Southsea, to 6 p.m. ...	-	-	-	1.8	0.06	Darwen, to 9 p.m. ...	39	33	or. o. bc. or. s	0.0	0.03
Bognor, to 6 p.m. ...	46	41	o. bc. bcp. c	1.2	0.41	Manchester, to 9 p.m. ...	37	32	s. b	0.0	0.42
						Birmingham, to 9 p.m. ...					

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		Weather.	RAIN.	STATIONS.	TEMPERATURE F.		Weather.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	not received	not received	-	Ins.	Utrecht ...	48	37	b. bc	0.04
Marseilles ...	61	36	b. b	-	Groningen ...	39	36	c. o	0.39
Malta ...	64	59	c	-	Zurich ...	-	-	r. bc	0.14
Algiers ...	68	54	b. b	-	Geneva ...	-	-	r. bc	0.20
Tunis ...	66	41	b. bc	-	Lugano ...	-	-	c. b	0.24
Palermo ...	68	54	b. b	-	Berne ...	56	-	bc	Measured 7.30 a.m. 0.39
Naples ...	57	54	c. o	0.08	Coire ...	50	-	b	-
Brindisi ...	64	49	b. b	-	Castasegna ...	37	-	r	0.20
Rome ...	59	54	c. o	-	Davos ...	41	-	bc	-
Vienna ...	45	34	b. r	0.04					
St. Petersburg ...	36	23	s. o	0.04					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Air.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
Columbia	52 N	21 W	30.05	NW	4-5	-	-	-	-	-	Dec 5th 4 a.m.	52 N	21 W	30.05	NW	4-5	-
	52 N	23 W	29.90	WNW	6-7	0	-	-	-	-	" 7 a.m.	52 N	23 W	29.90	WNW	6-7	0
	53 N	27 W	29.49	WNW	8-9	-	-	-	-	-	" 3 p.m.	53 N	27 W	29.49	WNW	8-9	-
	53 N	26 W	29.42	WNW	8-9	0	-	-	-	-	" 6 p.m.	53 N	26 W	29.42	WNW	8-9	0
	54 N	21 W	29.18	WNW	6-7	-	-	-	-	-	" 4th 4 a.m.	54 N	21 W	29.18	WNW	6-7	-
	54 N	20 W	29.18	NW	6-7	0	-	-	-	-	" 7 a.m.	54 N	20 W	29.18	NW	6-7	0
	54 N	17 W	29.15	NNW	4-5	-	-	-	-	-	" 3 p.m.	54 N	17 W	29.15	NNW	4-5	-
	54 N	16 W	29.13	NNW	4-5	0	-	-	-	-	" 6 p.m.	54 N	16 W	29.13	NNW	4-5	0

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1.—

(a) The morning observations are at 7 a.m., Western European time, (French Stations 6.51 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.

(b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; i. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

‡ Received too late for insertion in Charts.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

Monday  
6th Decr. 1909

STATIONS.		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.				
		Barom.	Temp.	Wind.	Force	Weather.	At 38° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind.	Force	Weather.	Sea	Temp.		Weather.	Sun.	Rainfall.	
																Mar.	Min.				
		At 38° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Dirac.	(0 to 12).		At 38° Fahr. and M.S.L. Lat. 45°					Dirac.	(0 to 12).		(0 to 9).						
SCANDINAVIA.	Haparanda...	29.24	33	S	4	7	29.23	+1.11	35	35	0	S	4	0	36	34			0.12		
	Hernösand...	29.02	34	Z	0	7	28.91	-1.11	35	35	-1	Z	0	0	37	32			0.43		
	Stockholm...	29.07	40	SSW	6	0	29.34	+1.29	35	34	-3	SSW	4	0	39	34			2.08		
	Wisby...	29.23	41	SSW	8	6	29.43	+1.20	37	35	-4	SW	4	0	41	34			0.08		
	Karlstad...	28.94	36	SE	2	0	29.22	+1.24	37	35	0	WSW	6	0					0.03		
	Færder (X'ania Fjord)	28.36	41	SE	2	0	29.15	+1.38	39	36	+2	SW	3	0	41	37			0.24		
	Bodö...	28.97	32	E	2	0	28.99	+1.23	35	33	+2	E	1	0	34	30			-		
	Christiansund...	28.85	36	SE	1	0	28.97	+1.25	35	31	-3	SE	1	0	37	30			-		
ICELAND & FAEROE.	Skudesnaes...	28.91	35	Z	0	0	29.11	+1.38	35	35	0	SE	2	0	37	30			0.16		
	Isafjord...	29.79	17	NNE	9	5	29.78	-0.03	16	*	0	NNE	9	0					*		
	Reykjavik...	29.72	22	N	9	5	29.44	+1.18	23	*	0	N	9	0					*		
	Seydisfjord...	29.17	31	N	1	5	29.38	+1.12	25	*	+1	Z	0	0					*		
BRITISH ISLANDS.	Thorshavn...	28.37	23	Z	0	0	28.95	+1.07	32	*	-1	NW	2	0					*		
	Sumburgh Head	28.87	35	NW	4	0	28.97	+1.28	36	34	-1	W	3	0	39	29			0.16		
	Stornoway...	29.09	34	N	1	0	29.14	+1.19	32	32	0	WNW	3	0	37	30	bc, b, b, b, b, b	2.0	0.15		
	Castlebay (Barra Id.)	29.10	35	SW	2	13	29.15	+1.16	36	34	-3	Z	0	0	40	32	c, bc, o, s, f, s	1.8	1.06		
	Malin Head	29.04	33	S	3	bc	29.09	+1.07	35	35	-5	Z	0	0	40	31	bc, bc		0.09		
	Blacksod Pt.	29.06	37	WSW	2	of	29.07	+1.04	32	32	-6	NNE	1	0	40	30	o, cp		0.19		
	Valencia...	29.06	40	N	1	of	29.08	-0.01	34	33	-2	NE	3	0	41	33	of, b, b	0.1	0.23		
	Roche's Point	29.04	39	NW	3	bc	29.08	-0.02	38	34	-1	N	2	0	41	34	cm, om, bc, bc	*	0.01		
	Birr Castle	29.05	34	Z	0	0	29.07	-0.01	32	31	+3	NW	3	0	38	29	b, o, s	1.6	0.03		
	Donaghadee	29.06	29	WSW	1	m	29.09	+1.05	39	39	+9	NNE	3	0	43	28	bc, bc, m, c, g		0.02		
	Liverpool Obsy...	29.14	38	ESE	3	bc	29.04	-0.01	34	33	-3	E	4	0	42	33	bc, b, o, s	6.6	0.08		
	Holyhead...	29.03	39	SE	1	bc	29.00	-0.09	38	37	-2	E	4	0	42	37	bc		0.05		
	Pembroke	29.00	42	SE	3	7	29.01	-0.09	41	38	-1	WSW	5	0	45	40	cp, or, or	0.2	0.37		
	(St. Ann's Hd.)																				
	Scilly (St. Mary's)	29.07	44	SW	3	0	29.11	-0.06	43	40	-1	W	4	0	46	42	r, o	2.1	0.03		
	Jersey (St. Aubins)	29.20	45	SSW	4	0	29.16	-0.07	44	42	-1	WSW	5	0	48	38	cg, or, b, o	3.0	0.23		
	Portland Bill	29.03	43	S	5	0	29.04	-0.10	44	42	0	W	5	0	49	42	c	3.8	0.23		
	Dungeness...	29.19	45	SW	4	7	29.04	-0.12	37	37	+1	W	3	0	47	34	b, b, b, b, b, b	3.1	0.20		
	Dover...	*	*	*	*	*	29.06	-0.14	37	36	+5	W	1	0	45	32	bc, o, l, or, or	5.0	0.26		
GERMANY, & C.	Wick...	29.03	34	W	2	0	29.10	+1.24	32	30	+1	W	2	0	36	28			0.05		
	Nairn...	29.06	31	W	1	0	29.13	+1.23	25	25	-7	Z	0	0	36	22	b, bc	6.0	0.01		
	Aberdeen...	29.08	31	W	1	0	29.17	+1.26	24	23	-8	WSW	1	0	36	24	b	6.0	-		
	Leith...	29.06	34	SW	1	f	29.13	+1.19	28	27	-3	SW	1	0	37	23	b, bc, f		-		
	North Shields	29.13	35	W	2	0	29.14	+1.16	29	29	-1	WNW	2	0	38	25	c	4.1	-		
	Spurn Head	29.17	35	W	4	bc	29.05	+1.03	40	39	+7	ENE	4	0	42	33	bc, m, b, m		0.01		
	Yarmouth...	29.21	37	WSW	2	bc	29.11	-0.01	37	37	+6	Z	0	0	40	31	bc, of	6.6	0.15		
	Clacton-on-Sea	29.20	42	S	3	bc	29.04	-0.11	37	36	+4	WNW	2	0	44	32	bc, l, or	6.6	0.23		
	Nottingham	29.17	31	W	1	0	29.06	-0.04	34	34	+4	E	1	0	38	29	bc, m	0.9	0.02		
	Bath...	29.11	40	SW	2	0	29.06	-0.09	30	30	+2	Z	0	0	45	28		5.8	0.05		
FRANCE.	Oxford...	29.13	38	SE	1	7	29.08	-0.11	33	33	+1	SW	1	0	46	31	b, c, o, s, f		0.15		
	London (St. James's Pk)	29.13	41	Z	0	0	29.05	-0.09	38	38	+7	S	1	0	45	30	bc, r	4.0	0.07		
	The Scaw (Skagen)	28.99	39	WSW	5	bc	29.23	+1.51	37	35	-6	SW	4	0	43	36			0.04		
	Fanö...	29.27	38	SW	4	0	29.29	+1.67	37	35	-3	E	2	0	43	36			0.03		
	Cuxhaven†...	29.28	38	SSW	4	0	29.32	+1.46	34	42	-6	S	2	0	41	32			0.04		
	The Helder	29.21	43	W	4	0	29.15	+1.12	33	37	-5	SE	2	0	43	34			0.12		
	Brussels...	*	*	*	*	*															
	Berlin†...	29.45	38	Z	0	0	29.51	+1.38	30	39	-14	SE	2	0	46	30			0.16		
	Frankfurt†...	29.50	36	SW	1	0	29.39	+1.14	42	36	+1	SW	6	0	45	36			0.12		
	Munich†...	29.63	34	SW	4	0	29.66	+1.28	29	48	-3	SE	4	0	37	23			0.12		
SPANISH - PENIN.	C. Gris Nez	29.23	42	S	5	0	29.07	-0.12	42	41	+3	W	4	0	42	39			0.32		
	La Hève	?	37	SW	5	0	?	?	41	39	0	SW	5	0	50	37			0.08		
	Brest...	29.21	47	SW	5	0	29.26	+1.02	45	42	-2	WNW	6	0	48	41			0.16		
	Lorient	?	46	SW	5	7	?	?	43	42	-2	WNW	4	0	48	41			0.39		
	Rocheport	29.45	50	WNW	5	7	29.40	-0.00	47	45	+4	W	5	0	52	41			0.16		
	Biarriz																				
	Paris	29.35	42	S	3	7	29.27	-0.03	42	41	+8	SSW	4	0	45	34			0.04		
	Belfort...																				
SPANISH - PENIN.	Lyons...	29.63	44	S	1	0	29.59	+1.10	41	37	-1	S	2	0	51	39			-		
	Nice...	29.65	47	E	1	0	29.30	+1.34	44	38	0	E	2	0	55	37			-		
	Perpignan...	29.71	45	SW	1	0	29.66	+1.05	36	34	-5	SW	1	0	56	35			-		
	Saugonmaire	29.79	52	W	3	0	29.88		55	52		E	4	0	61	48			0.35		
	Corunna																				
SPANISH - PENIN.	Lisbon																				
	Azores (P. Delgada)																				
	„ Horta	30.04	59	W	1	0	30.04	-0.02	60	58	+1	WSW	2	0	63	59			-		

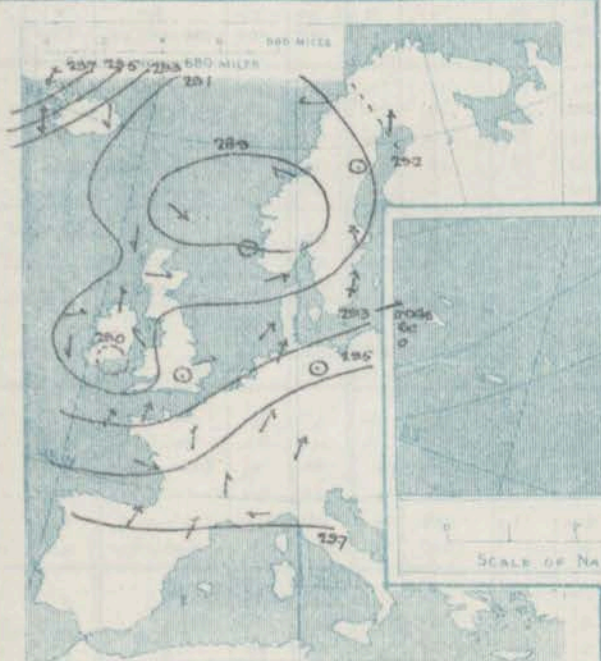


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

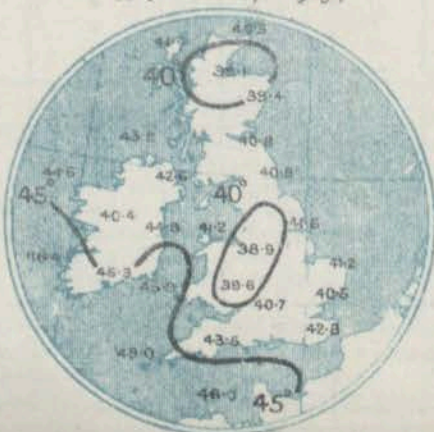
7 A.M. YESTERDAY.



6 P.M. YESTERDAY

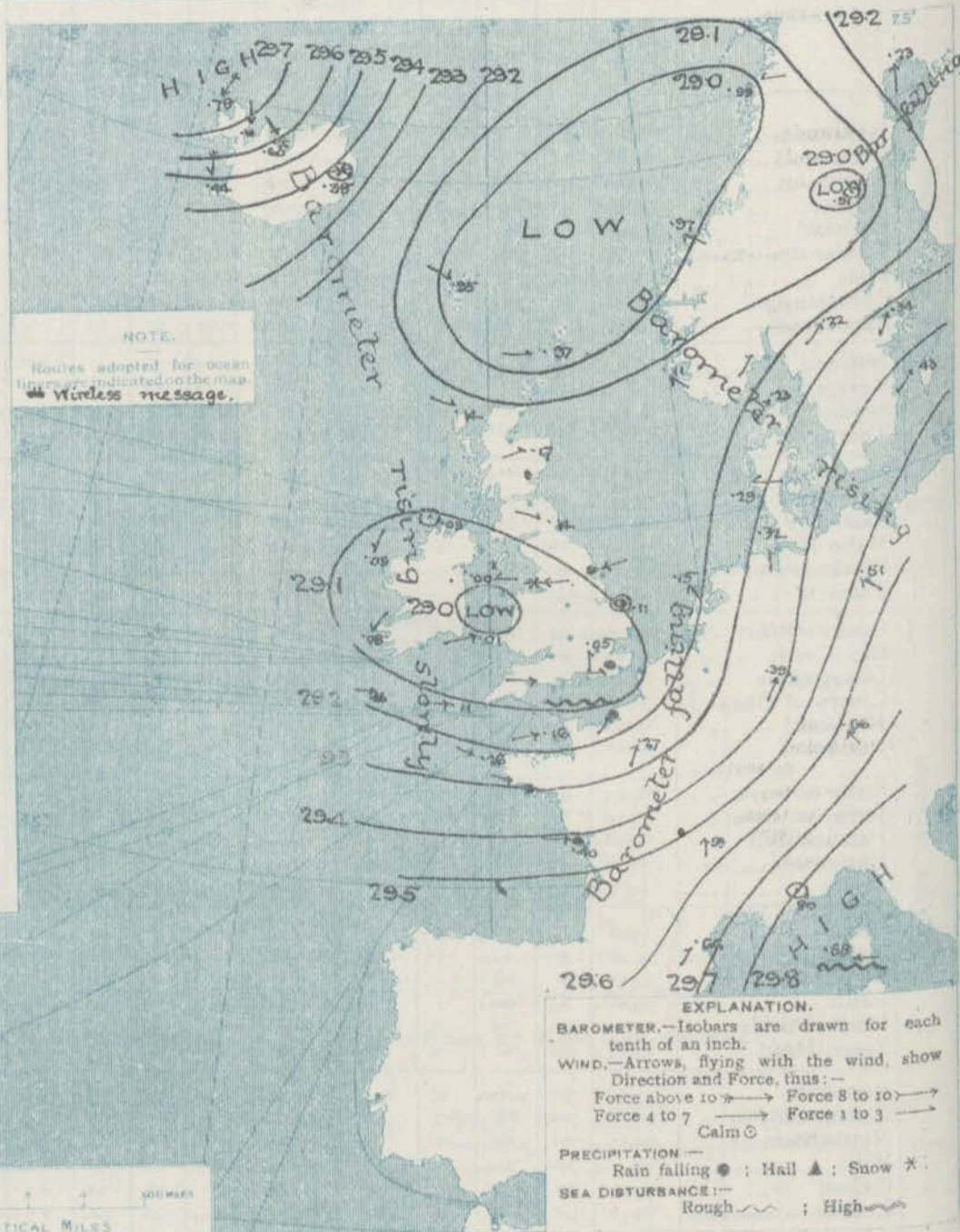


AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
NOVEMBER-DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Monday, WEATHER 6<sup>th</sup> Dec:

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

The distribution of atmospheric pressure is very complex over the whole of north-western Europe. The barometer is below 29 ins over Wales, to the northward of Scotland and on the Gulf of Bothnia. At the Azores it is only slightly above 30 ins. The gradient is moderate to very slight generally.

The winds show cyclonic circulations round the various pressure minima. As a rule the force is very light, but a fresh to strong breeze is reported in the Channel and at a few foreign stations, a strong northerly gale in western Iceland. Temperature is low in most regions. At the home stations it ranges from 24° at Aberdeen to 44° at Jersey and Portland Bill; over western Europe from 20° at Munich to 41° at Rochefort; in Scandinavia the readings are 35° to 33°; and in Iceland from 16° to 25°. The weather varies considerably; in many places it is fine and clear, in others very cloudy to dull and gloomy, with rain in the east of England, central Ireland, locally in France and in western Germany, snow at Liverpool and in Iceland. The atmosphere is foggy on the Irish of North. The sea is rather rough at the entrance to the Seine and off Corsica, moderate to very smooth on all other coasts.

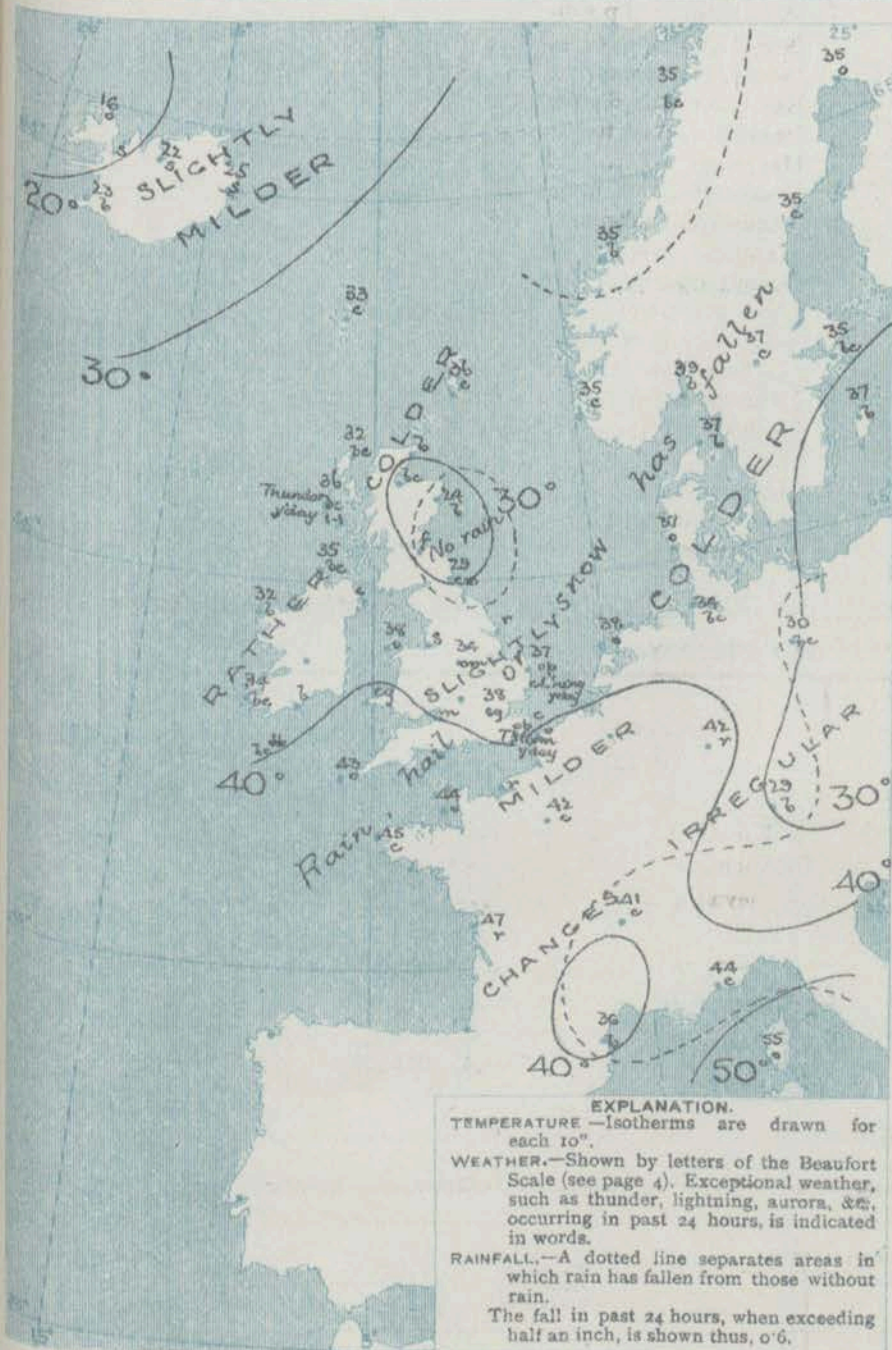


CHARTS 6<sup>th</sup> December, 1909.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

## 2 TEMPERATURE AND WEATHER AT 7 A.M TO DAY



## NOTES ON YESTERDAY'S WEATHER

In many parts of the British Isles temperature remained below 40° yesterday not passing 35° or 36° at a number of stations. At Plymouth the maximum was 51°. Sharp frost occurred in the night. The shade temperature descending to 23° at Mainz, and to 1° at Leith. Rain, hail, sleet and snow have been experienced generally, and Castlebar reports 1.1 inch. Lightning has been seen in several localities, and Dungeness and Portsmouth had a thunderstorm. As a rule the bright sunshine records were very good for the season, ranging upwards to 6.2 hours at Liverpool, Clacton-on-Sea and Great Yarmouth. Wireless reports from that ship conference north, Westall records moderate or strong to a whole gale, with fine to cloudy weather, as far west as the 27th meridian.

GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

With pressure continuing so very low the conditions are likely to remain of a very changeable type over the country generally.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 {  
a Calms and light variable W<sup>ly</sup> breezes;  
b snow at times locally, fine intervals;  
very cold.
- 1 {  
a Variable breezes, mainly E<sup>ly</sup>, light to  
b moderate; changeable, some rain,  
sleet or snow; cold.
- 2 {  
a Very variable breezes, E<sup>ly</sup> in north,  
b W<sup>ly</sup> in south; dull generally, some  
rain or snow; cold.
- 3 {  
a S<sup>ly</sup> and W<sup>ly</sup> breezes, fresh on Channel.  
b Dull generally, some rain or snow;  
cold.
- 4 Same as Nos. 0 and 1.
- 5 {  
a Same as No. 2.  
b
- 6 {  
a W<sup>ly</sup> to N. W<sup>ly</sup> breezes, fresh to light;  
b dull generally, some rain or snow;  
cold.
- 7 {  
a Light variable N<sup>ly</sup> breezes; fair  
b generally, some rain or snow in  
places; cold.
- 8 {  
a  
b
- 9 {  
a  
b
- 10 {  
a  
b

11 WESTERN CHANNEL AND BAY. S. and N.E. winds, strong to moderate sea moderate to rather rough; changeable, some rain or sleet; cold.

## FORECAST DISTRICTS.

Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

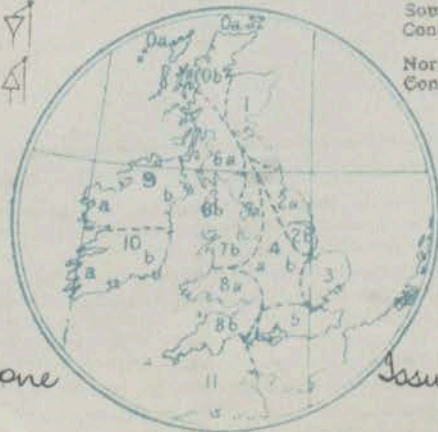
Signals hoisted  
this morning.

South Cone. 

North Cone. 

South  
Cone. 

North  
Cone. 



Phone

Issued.



**TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.**

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	36	26	s. bz. bc	4.7	0.02	Werthing, to 6 p.m. ...	47	28	m. c. o	5.4	0.03
Dublin (City), to 4 p.m. ...	39	32	cl. bz. bc	"	"	Brighton, to 6 p.m. ...	45	30	"	5.8	0.14
Rossall Beach, to 6 p.m. ...	45	28	ov. bc. om	"	0.03	Seaford, to 6 p.m. ...	45	30	"	3.7	0.18
Blackpool, to 9 p.m. ...	44	28	m. b	5.8	0.07	Eastbourne, to 6 p.m. ...	46	30	"	3.6	"
Southport, to 9 p.m. ...	43	29	bc. ov. c. bc. om	4.6	0.06	Bexhill-on-Sea, to 9 p.m. ...	"	"	"	3.8	"
Rhyl, to 6 p.m. ...	43	33	o. c. bc. r. bc	5.2	0.04	Hastings ...	"	"	"	4.2	0.11
Colwyn Bay, to 6 p.m. ...	47	40	bc. b	5.5	"	Folkestone, to 6 p.m. ...	44	28	b. p. bc. h. r	5.3	0.07
Llandudno, to 9 p.m. ...	45	39	bc	5.0	0.01	Ramsgate, to 6 p.m. ...	"	"	"	5.8	"
Bettws-y-Coed, to 6 p.m. ...	"	"	"	"	"	Margate, to 6 p.m. ...	44	31	b. z	"	"
Towyn, to 6 p.m. ...	"	"	"	"	"	Felixstowe, to 6 p.m. ...	"	"	"	6.0	"
Aberystwyth, to 6 p.m. ...	42	34	"	1.7	0.05	Lowestoft, to 6 p.m. ...	39	30	ov. bc. b	3.4	0.01
Plymouth, to 9 p.m. ...	43	29	bc. op. th	0.8	0.44	Skegness, to 6 p.m. ...	37	28	bc. b	5.4	"
Torquay, to 6 p.m. ...	47	31	"	1.7	0.13	Scarborough, to 9 p.m. ...	40	30	"	5.7	0.01
Weymouth, to 6 p.m. ...	51	39	x. bc. r	3.8	0.14	Harrogate, to 6 p.m. ...	38	27	sp	2.8	0.26
Bournemouth, to 6 p.m. ...	49	31	b. o. r	5.4	0.10	Buxton, to 6 p.m. ...	35	24	b. os. b. om	"	0.15
Southsea, to 6 p.m. ...	47	29	cl	4.8	0.01	Darwen, to 9 p.m. ...	"	"	"	"	"
Bognor, to 6 p.m. ...	45	31	b. bc. z	5.0	0.01	Manchester, to 9 p.m. ...	36	27	bc. b	"	"
						Birmingham, to 9 p.m. ...	39	30	c. o	2.4	"

**TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.**

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ... .. 1909	°	°		Ins.	Utrecht ... .. 1909	°	°		Ins.
Marseilles ... ..	Observations not received.				Groningen ... ..	"	"		
Malta ... ..					Zurich... ..	"	"		
Algiers... ..					Geneva ... ..	"	"		
Tunis ... ..					Lugano ... ..	"	"		
Palermo ... ..									
Naples... ..					..... 1909.	1.00 p.m.	1.00 p.m.		
Brindisi ... ..					Berne ... ..	43	"	bc	Measured 7.30 a.m. 0.47
Rome ... ..					Coire ... ..	39	"	b	0.16
Vienna... ..					Castasegna... ..	37	"	o	0.32
St. Petersburg ... ..					Davos ... ..	27	"	b	0.16

**WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.**

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Direc.	Force.		Air.		Sea.			Lat.	Long.		Direc.	Force.	
							Dry Bulb.	Wet Bulb.									
<i>Guernia</i> { 4th Dec. 4am " 7am	51N 50N	24W 25W	29.60 29.62	NW NW	8-9 8-9	- c	- -	- -	- -	- -	4th Dec. 4am " 7am " 3pm	50N 50N 50N	28W 27W 25W	29.81 29.75 29.71	NW NW NW	8-9 8-9 8-9	- - -
<i>Majestic</i> { 4th " 4am " 7am " 8pm " 6pm	51N 51N 51N 51N	19W 20W 23W 24W	29.16 29.22 29.49 29.55	N NW NW NW	8-9 8-9 6-7 6-7	- c - bc	- - - -	- - - -	- - - -	- - - -	<i>Montreal</i> { 5th " 4am " 7am " 3pm " 6pm	50N 50N 50N 50N	24W 22W 21W 19W 18W	29.69 29.47 29.44 29.36 29.37	NW NW NW NW NW	10-11 10-11 8-9 8-9 -	- - - - -
<i>Minnetonka</i> { 5th " 3pm " 6pm " 4am " 7am	49N 49N 49N 49N	28W 27W 23W 22W 19W 18W 14W 13W	29.93 29.81 29.57 29.46 29.37 29.37 29.37 29.33 29.20	WNW WNW WNW WNW WNW WNW WNW WNW WNW	4-5 4-5 8-9 8-9 6-7 6-7 6-7 4-5 4-5	- o - c - - c - bc	- - - - - - - -	- - - - - - - -	- - - - - - - -	- - - - - - - -	<i>Sake Michigan</i> { 5th " 10am " 1pm " 3pm " 6pm	50N 50N 50N 50N	11W 11W 12W 12W	29.15 29.13 29.13 29.14	WNW WNW WNW WNW	4-5 4-5 6-7 6-7	- - - -
											<i>Finland</i> { 6th " 4am " 7am	50N 50N	8W 9W	29.10 29.10	WNW W	6-7 6-7	- -

**NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—**

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.61 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.
- \* Information for these columns is not usually received.
- † The figures in the "wet bulb" column represent the relative humidity.
- ‡ Received too late for insertion in Charts.

**TERMS OF SUBSCRIPTION for the Daily Weather Report**  
and for transmission of Forecasts by telegraph may be  
obtained on application.

**METEOROLOGICAL OFFICE,**  
68, VICTORIA STREET, S.W.  
**W. N. SHAW, (Director.)**

SCANDINAVIA.  
ICELAND & FAEROE.  
BRITISH ISLANDS.  
GERMANY, & C.  
FRANCE.



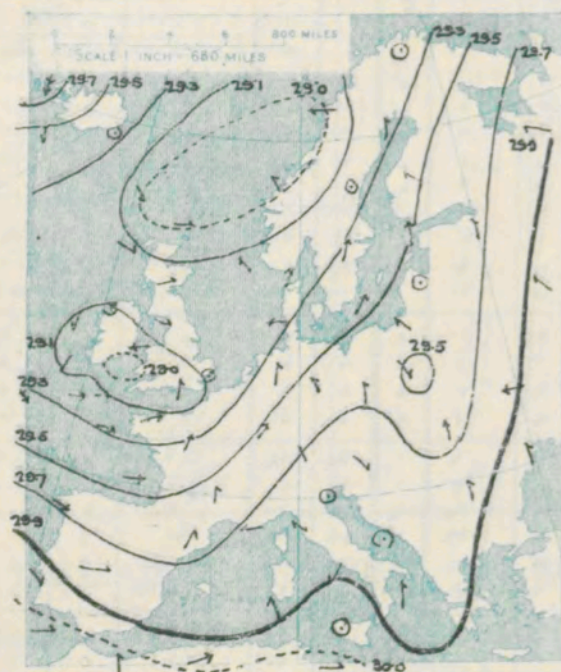
{ Tuesday  
7th Decr. 1909.

For NOTES see Page 4



SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A.M. YESTERDAY.

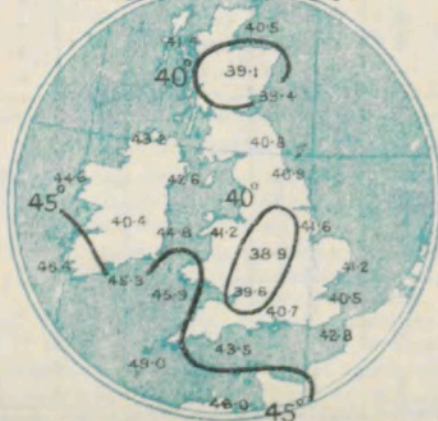


6 P.M. YESTERDAY.



AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
NOVEMBER-DECEMBER.

(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)

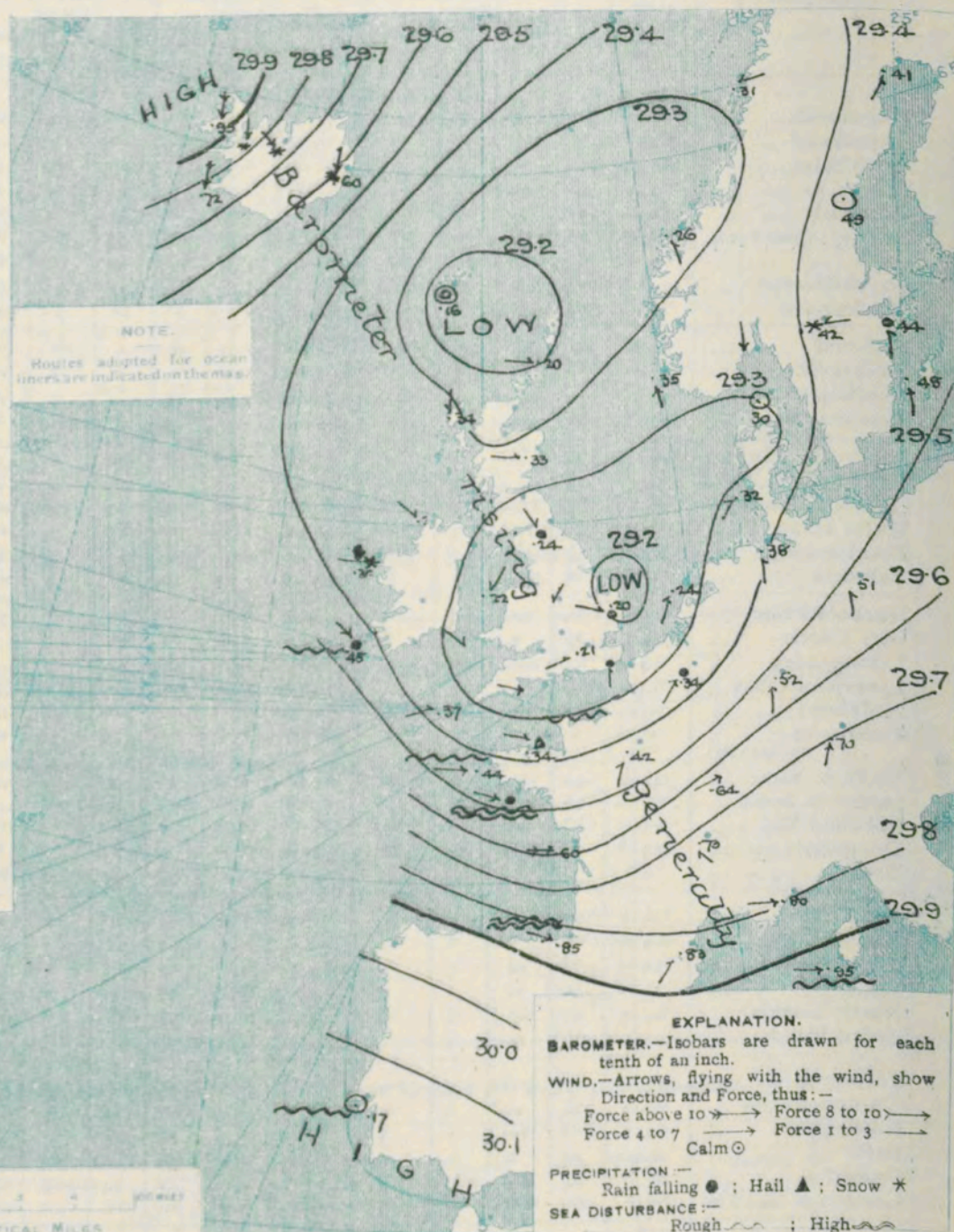


WEATHER

Tuesday,

7<sup>th</sup> Dec.

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

The low pressure system still occupies the whole of North Western Europe, but it is gradually filling up, the lowest barometer readings being a little below 29.2 ins. off Great Yarmouth and to the northward of Iceland. At the Azores, on the Mediterranean and between Iceland and Greenland pressure is a little below 30 ins. The gradient is moderate over the Bay region and in Iceland, slight elsewhere.

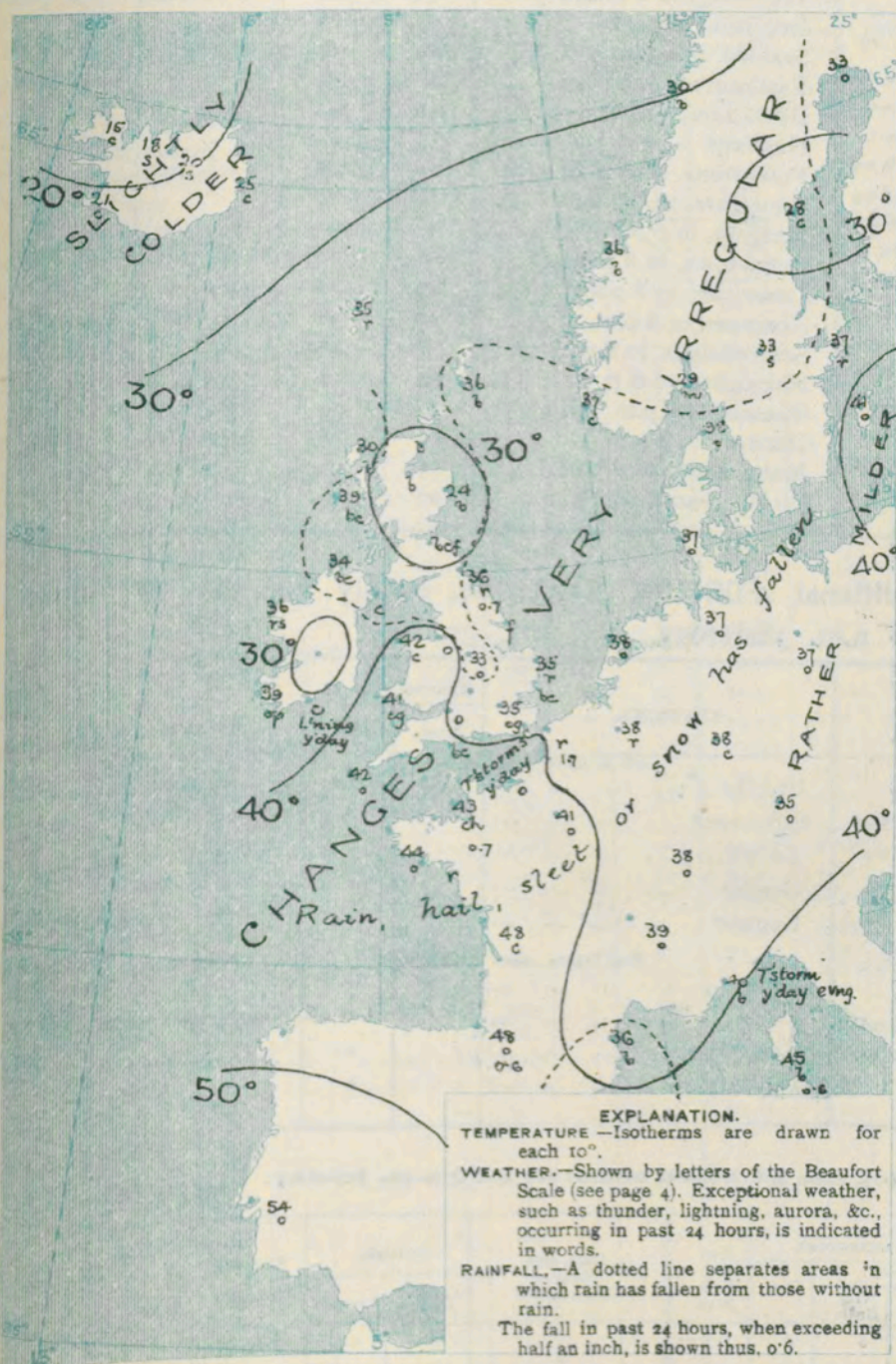
From the British Isles across to Scandinavia the winds are very light and variable, but in France and on the Bay there is a fresh to high southerly to westerly wind, a strong gale at Rochefort. In Iceland a northerly wind, fresh to a gale, is reported. At the home stations temperature ranges from 24° at Aberdeen to 43° at Jersey and Portland Bill; over the western portion of the Continent from 35° at Perpignan to 48° at Rochefort and Biarritz; in Scandinavia from 28° at Helsingfors to 41° at Visby; and in Iceland from 15° to 25°. The weather varies greatly throughout the region under observation, fine and clear in Scotland and at various Continental stations, overcast to dull and gloomy in many places, rain is falling at a number of stations, a heavy hail storm at Jersey, sleet in Mayo, and snow in Iceland and at Harstad. The atmosphere is foggy at the mouth of the Rhumber, and on the Irish of Forth. A high sea is running on the Bay and is rough on rather rough locally on the English Channel, and off Valencia, moderate to rough, etc.



# CHARTS

7<sup>th</sup> December, 1909.

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



### NOTES ON YESTERDAY'S WEATHER.

In many parts of the United Kingdom temperature failed to reach 40° yesterday, at least and in the maximum was only 31°, and at Aberdeen 30°. Frost occurred in the night in many districts, especially in the north, rain reporting a minimum of 20°. Rain, hail, sleet and snow were experienced pretty generally, especially at Jersey and Shields amounting to 1 inch. Thunderstorms occurred at Jersey and Dungeess, lightning at some other stations. At many stations there was little or no bright sunshine, but Bournemouth and Valencia had 1 1/2 hours and Pembroke 6 hours. Windless reports from the Atlantic show that ships experienced westerly and north-westerly winds, a strong wind to a whole gale, with fair to dull weather as far west as the 21st meridian.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The British Isles still remain within the central space of an extensive low pressure system, and on the Kerry coast the rise of the barometer has become unsteady. No great change in the general weather conditions is therefore anticipated within the coming twenty-four hours.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 } Light variable breezes between 78° and 76°; changeable, some rain or snow, fog locally; very cold.
- 1 }
- 2 }
- 3 }
- 4 } Light variable 58° to 76° breezes; dull, some rain or snow, fog in places; cold.
- 5 }
- 6 } Same as Nos. 0 to 3.
- 7 }
- 8 } 58° to 76° breezes, fresh at times locally; dull, some rain or snow; cold.
- 9 } 76° to 78° breezes, fresh at times locally; changeable, some rain or snow; cold.
- 10 }

### 11 WESTERN CHANNEL AND BAY.

78° and 76° winds, force variable, light to strong, a gale at times on day; sea moderate to high; changeable, some rain and hail squalls, fog banks; cold.

### FORECAST DISTRICTS.

Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

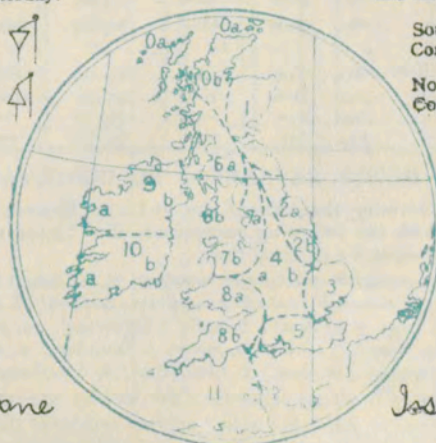
Signals hoisted this morning.

South Cone.

South Cone.

North Cone.

North Cone.



None

Issued.



# DAILY WEATHER REPORT. Tuesday, 7th Dec. 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	36	19	b. bc	1.0	-	Worthing, to 6 p.m. ...	42	30	r. o. cl. o	2.6	0.38
Dublin (City), to 4 p.m. ...	39	32	c. or sh. c	-	1.13	Brighton, to 6 p.m. ...	44	34	"	1.6	0.21
Rossall Beach, to 6 p.m. ...	36	28	m. r. m	-	0.04	Seaford, to 6 p.m. ...	46	36	o. bc.	0.5	0.62
Blackpool, to 9 p.m. ...	36	29	o. c	0.0	0.02	Eastbourne, to 6 p.m. ...	45	36	"	0.1	0.74
Southport, to 9 p.m. ...	36	29	os. o	0.0	0.15	Bexhill-on-Sea, to 9 p.m. ...	45	36	"	0.1	0.44
Rhyl, to 6 p.m. ...	37	31	b. bc. r	0.0	0.09	Hastings ...	"	"	"	0.0	"
Colwyn Bay, to 6 p.m. ...	36	34	bc. o	0.2	0.09	Folkestone, to 6 p.m. ...	44	34	c. r. l. bc. l	0.1	0.22
Llandudno, to 9 p.m. ...	39	34	or. o	0.4	0.08	Ramsgate, to 6 p.m. ...	"	"	"	1.5	0.38
Bettws-y-Coed, to 6 p.m. ...	37	32	c. o	0.0	"	Margate, to 6 p.m. ...	41	34	b. ol. b	1.5	0.36
Towyn, to 6 p.m. ...	42	34	o. or	0.0	0.23	Felixstowe, to 6 p.m. ...	43	33	"	0.0	0.17
Aberystwyth, to 6 p.m. ...	46	40	"	0.0	0.03	Lowestoft, to 6 p.m. ...	42	35	bc. o. r	0.3	0.24
Plymouth, to 9 p.m. ...	45	32	bc. bc.	1.5	0.05	Skegness, to 6 p.m. ...	39	35	r. c	0.0	0.01
Torquay, to 6 p.m. ...	46	33	"	3.5	0.07	Scarborough, to 9 p.m. ...	43	32	o	0.5	0.02
Weymouth, to 6 p.m. ...	46	37	bc. bc.	3.6	0.06	Harrogate, to 6 p.m. ...	33	23	b. os. gm. m	0.0	0.31
Bournemouth, to 6 p.m. ...	46	33	bc. bc. or	5.3	0.17	Buxton, to 6 p.m. ...	34	29	f. os. c. os	0.1	0.07
Southsea, to 6 p.m. ...	44	37	"	4.2	0.36	Darwen, to 9 p.m. ...	35	28	bc. os. c. os	0.0	0.09
Bognor, to 6 p.m. ...	44	34	o. bc. o	2.6	0.28	Manchester, to 9 p.m. ...	38	32	bc. os. c. o	0.0	0.15
						Birmingham, to 9 p.m. ...	37	32	o. c. o	1.2	"

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	"	"	"	Ins.	Utrecht ...	43	34	b. r	0.16
Marseilles ...	Observations not received.				Groningen ...	43	34	b. o	0.16
Malta ...	68	55	b.	0.04	Zurich ...	"	"	c. b	0.20
Algiers ...	66	55	bc. bc	-	Geneva ...	"	"	o. bc	0.05
Tunis ...	64	36	bc. c	-	Lugano ...	"	"	b. o	0.35
Palermo ...	70	48	b. f	-	Berne ...	5th Dec. 1909. 1.00 p.m.	1.00 p.m.	Observations not received.	
Naples ...	60	54	o. b	0.16	Coire ...	"	"	"	Measured 7.00 a.m.
Brindisi ...	66	43	b. bc	-	Castasegna ...	"	"	"	"
Rome ...	60	49	bc. o	0.08	Davos ...	"	"	"	"
Vienna ...	48	32	o. b	0.20					
St. Petersburg ...	36	32	f. o	-					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Air.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
Majestic { 5th Dec. 1909. 7am	50N	25W	29.77	N	6-7	-	"	"	"	-	Finland { 6th Dec. 1909. 6pm	50N	12W	29.25	NNW	10-11	c
	50N	29W	29.81	NNW	6-7	c	"	"	"	-		50N	13W	29.29	NW	10-11	"
Montreal { 6th Dec. 1909. 4am	50N	15W	29.28	NW	8-9	-	"	"	"	-							
	50N	14W	29.30	WNW	8-9	o	"	"	"	-							
	50N	12W	29.38	WNW	10-11	-	"	"	"	-							
	50N	11W	29.39	WNW	10-11	o	"	"	"	-							
Lake Michigan { 6th Dec. 1909. 4am	50N	13W	29.19	WNW	8-9	-	"	"	"	-							
	50N	15W	29.26	WNW	8-9	c	"	"	"	-							
	50N	16W	29.50	WNW	10-11	-	"	"	"	-							
	50N	16W	29.59	NW	8-9	bc	"	"	"	-							
Celtic { 6th Dec. 1909. 4am	51N	15W	29.00	NW	8-9	-	"	"	"	-							
	51N	16W	29.06	NNW	8-9	o	"	"	"	-							
	51N	19W	29.50	NW	8-9	-	"	"	"	-							
	51N	20W	29.55	NW	6-7	bc	"	"	"	-							

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‡ Received too late for insertion in Charts.

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METEOROLOGICAL OFFICE,  
68, VICTORIA STREET, S.W.  
**W. N. SHAW, (Director.)**



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

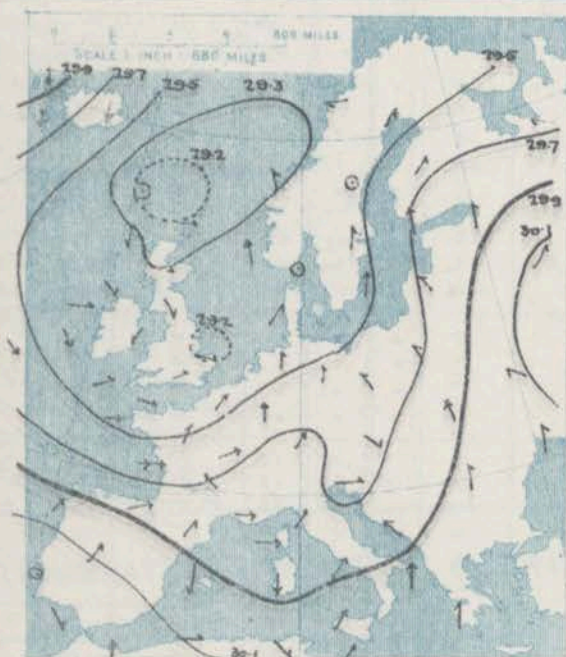
Wednesday  
8<sup>th</sup> December, 1909.

STATIONS.		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.					
		BAROM.		TEMP.		WIND.	Weather.	BAROMETER.		TEMPERATURE.			WIND.		Force (0 to 12).	Weather.	Sea (0 to 9).	TEMP.		Weather.	Sun. shine.	Rainfall.
		At 8 <sup>30</sup> Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Direc.	Force (0 to 12).			At 8 <sup>30</sup> Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12).				Max.	Min.			
Ins.		Ins.	Ins.	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	Hours.	Ins.
SCANDINAVIA.																						
Haparanda...	29.60	32	SW	2	7	29.63	+22	33	32	0	SE	2	0	0	0	34	32	0	0	0.04		
Hernösand...	29.58	22	Z	0	0	29.64	+15	13	13	-10	Z	0	0	0	0	32	218	0	0	0.04		
Stockholm...	29.56	36	SE	2	f	29.66	+22	33	33	-4	Z	0	0	0	0	37	33	0	0	0.04		
Wisby...	29.52	38	S	4	7	29.71	+23	38	37	-3	S	2	0	m	0	43	32	0	0	0.04		
Karlstad...	29.50	36	Z	0	f	29.69	+27	34	33	+1	SW	2	0	f	0	30	27	0	0	0.16		
Færder (X'ianta Fjord)	29.50	29	N	2	0	29.66	+30	28	26	-1	NNW	3	0	1	0	28	25	0	0	-		
Bodö...	29.44	28	E	4	c	29.53	+22	27	25	-3	E	4	0	6	1	39	34	0	0	-		
Christiansund...	29.41	38	S	1	bc	29.51	+25	35	32	-1	SE	1	0	bc	4	37	32	0	0	-		
Skudesnaes...	29.50	36	SSW	2	G	29.63	+28	35	32	-2	SE	2	0	6	2	37	32	0	0	-		
ICELAND & FAEROE.																						
Isafjord...	29.74	15	N	2	C	29.37	-56	18	*	+3	N	9	0	0	0	0	0	0	0	0	0	
Reykjavik...	29.72	19	N	6	C	29.30	-42	23	*	+2	NE	10	0	0	0	0	0	0	0	0	0	
Seydisfjord...	29.70	44	N	3	0	29.79	+19	32	*	+7	NNW	4	0	6	0	0	0	0	0	0	0	
Thorshavn...	29.49	35	NNW	6	S	29.63	+47	32	*	-3	NW	2	0	0	0	0	0	0	0	0	0	
BRITISH ISLANDS.																						
Sumburgh Head	29.33	36	N	3	C	29.67	+47	36	35	0	Z	0	0	0	2	40	29	0	0	0.19		
Stornoway...	29.55	38	NW	2	bc	29.73	+39	35	34	+5	NNW	2	0	bc	2	38	23	0	0	0.13		
Castlebay (Barra Id.)	29.61	36	Z	0	6	29.80	+47	39	35	0	WNW	2	0	bc	2	42	35	0	0	0.06		
Malin Head...	29.58	40	N	2	6	29.82	+53	41	39	+7	SW	2	0	6	1	42	32	0	0	-		
Blacksod Pt. ...	29.59	39	N	3	cp	29.95	+56	42	39	+6	NW	3	0	C	2	40	34	0	0	0.40		
Valencia...	29.70	40	WSW	3	0	30.05	+60	38	35	-1	NE	1	0	bcx	4	44	30	0	0	0.14		
Roche's Point...	29.67	38	NW	3	6	30.02	+64	36	35	0	NNW	2	0	6	2	40	33	0	0	0.01		
Birr Castle...	29.63	34	W	1	0	30.01	+62	28	27	+3	Z	0	0	6	0	35	24	0	0	0.06		
Donaghadee...	29.55	34	W	3	C	29.34	+53	33	32	+1	WSW	2	0	6	0	40	29	0	0	-		
Liverpool Obsy...	29.54	38	NW	2	bc	29.90	+67	39	36	+4	NW	3	0	6	2	39	34	0	0	0.02		
Holyhead...	29.50	42	NW	3	bc	29.91	+69	40	38	-2	NW	3	0	6	2	43	38	0	0	-		
Pembroke (St. Ann's Hd.)	29.57	40	NW	3	C	29.93	+65	39	35	-2	NW	3	0	bc	3	44	38	0	0	5.1		
Scilly (St. Mary's)...	29.61	42	NNW	3	0	29.97	+60	41	38	-1	NNW	3	0	C	3	45	40	0	0	-		
Jersey (St. Aubins)...	29.50	40	W	3	0	29.92	+58	40	38	-3	NW	4	0	bc	3	44	37	0	0	0.27		
Portland Bill...	29.47	43	NW	4	6	29.90	+67	41	40	-2	NNW	3	0	bc	3	45	38	0	0	-		
Dungeness...	29.40	38	W	3	0	29.76	+57	33	33	-7	WNW	3	0	C	3	40	32	0	0	1.6		
Dover...						29.80	+57	34	32	-6	NW	?	0	6	4	40	32	0	0	3.1		
Wick...	29.44	35	NW	2	bc	29.73	+44	34	32	+7	NW	1	0	bc	1	37	26	0	0	-		
Nairn...	29.52	34	Z	0	6	29.74	-45	35	34	+9	WSW	1	0	C	1	36	24	0	0	5.7		
Aberdeen...	29.52	38	WNW	1	C	29.79	+46	32	31	+8	W	1	0	6	2	36	22	0	0	4.7		
Leith...	29.53	31	WSW	2	6	29.79	+52	32	31	+7	WSW	1	0	cm	0	32	23	0	0	-		
North Shields...	29.47	35	N	3	0	29.81	+57	31	30	-5	W	3	0	C	3	40	29	0	0	0.32		
Spurn Head...																						
Yarmouth...	29.35	32	W	2	of	29.69	+49	38	38	+3	WNW	4	0	bc	4	41	32	0	0	0.10		
Clacton-on-Sea...	29.40	34	WNW	2	6	29.76	+55	34	33	+1	WNW	3	0	bc	2	37	32	0	0	0.02		
Nottingham...	29.44	37	NW	3	bc	29.84	+60	29	28	-4	W	1	0	6	0	38	28	0	0	0.01		
Bath...	29.47	41	W	1	0	29.93	+66	32	31	-5	Z	0	0	m	0	41	29	0	0	-		
Oxford...	29.55	35	NW	2	0	29.93	+66	31	30	-4	W	2	0	6	0	37	31	0	0	-		
London (St. James's Pk)	29.44	37	WSW	2	0	29.83	+62	34	32	-1	WNW	2	0	bc	0	38	33	0	0	0.01		
GERMANY, & C.																						
The Scaw (Skagen)...	29.49	38	Z	0	0	29.65	+35	38	37	0	ENE	1	0	C	0	39	37	0	0	0.12		
Fanö...	29.43	37	SE	4	0	29.61	+29	35	34	-2	SE	2	0	0	0	37	34	0	0	-		
Cuxhaven†...	29.44	39	0	2	0	29.61	+33	34	36	-2	S	2	0	bc	0	41	34	0	0	0.04		
The Helder...	29.37	35	S	1	C	29.61	+37	33	33	-5	S	1	0	C	0	41	32	0	0	0.16		
Brussels...						29.65	+31	37	37	-1	W	2	0	7	0	41	34	0	0	0.20		
Berlin†...	29.57	38	S	2	bc	29.71	+25	36	39	-1	S	2	0	C	0	41	34	0	0	-		
Frankfurt†...	29.62	39	S	5	0	29.69	+17	38	41	0	SW	4	0	m	0	43	37	0	0	0.20		
Munich†...	29.76	35	SW	4	C	29.79	+09	30	100	-5	Z	0	0	f	0	41	28	0	0	-		
FRANCE.																						
C. Gris Nez...	29.41	40	WNW	5	0	29.76	+52	39	37	+1	NW	5	0	6	5	45	36	0	0	0.12		
La Hève...	29.53	42	SW	5	0	29.97	?	43	41	+1	WNW	5	0	C	5	43	39	0	0	0.04		
Brest...	29.61	41	NW	6	0	29.98	+34	44	42	0	NW	4	0	bc	3	46	41	0	0	0.28		
Lorient...	?	43	NW	6	7	?	?	42	42	-2	WNW	3	0	bc	5	48	39	0	0	0.12		
Rochefort...	29.66	45	W	3	7	30.10	+60	45	42	-3	NW	2	0	0	6	50	41	0	0	0.28		
Biarritz...	29.91	50	W	9	7	30.14	+29	48	46	0	WSW	6	0	7	6	54	41	0	0	0.51		
Paris...	29.51	39	SSW	2	0	29.82	+41	34	34	-7	SW	2	0	bc	0	42	33	0	0	-		
Belfort...																						
Lyons...	29.77	42	SSW	2	0	30.13	+40	38	36	-1	N	2	0	0	6	47	37	0	0	-		
Nice...	29.87	42	W	5	6	29.75	-05	42	35	+2	W	5	0	6	6	50	37	0	0	0.04		
Pérpignan...	29.82	46	SW	2	6	30.03	+20	45	39	+9	W	3	0	6	6	57	36	0	0	-		
Sanguinaire...	29.99	48	W	3	6	29.94	-01	50	46	+5	NW	7	0	m	6	57	45	0	0	1.06		
SPANISH PENIN.																						
Corunna...																						
Lisbon...																						
Azores (P. Delgada)...																						
Horta...	29.94	64	SSW	5	0	29.39	-09	65	63	+1	SSW	6	0	6	6	66	64	0	0	-		

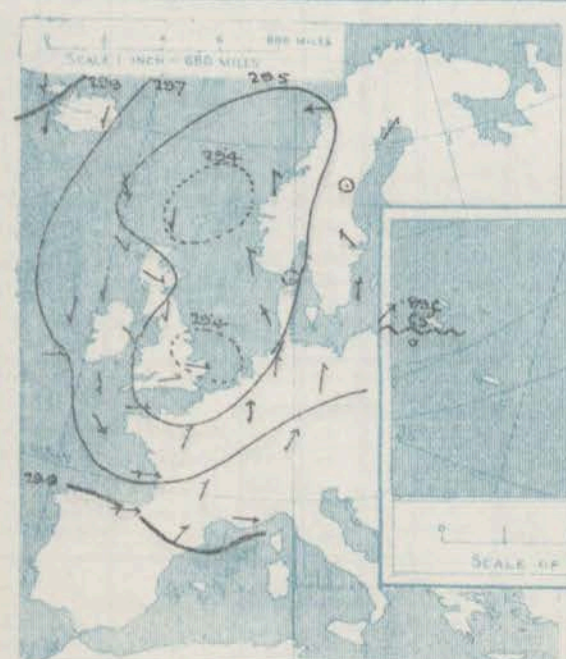


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

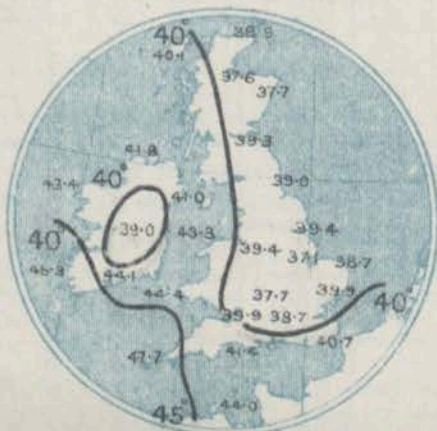
7 A.M. YESTERDAY.



6 P.M. YESTERDAY



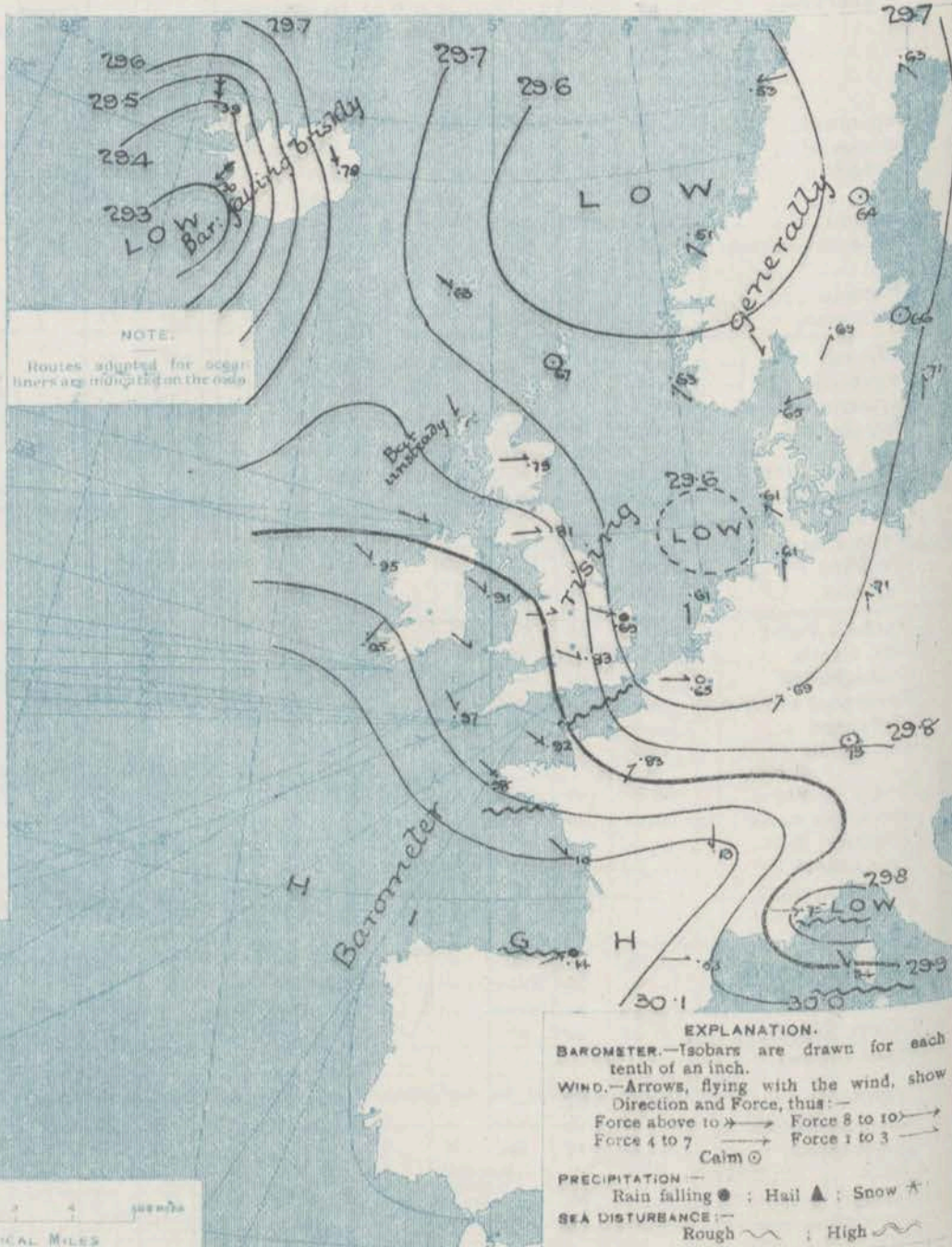
AVERAGES OF TEMPERATURE AT 8. A.M.  
FOR THE MONTH OF DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Wednesday.

WEATHER 8<sup>th</sup> Dec.

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

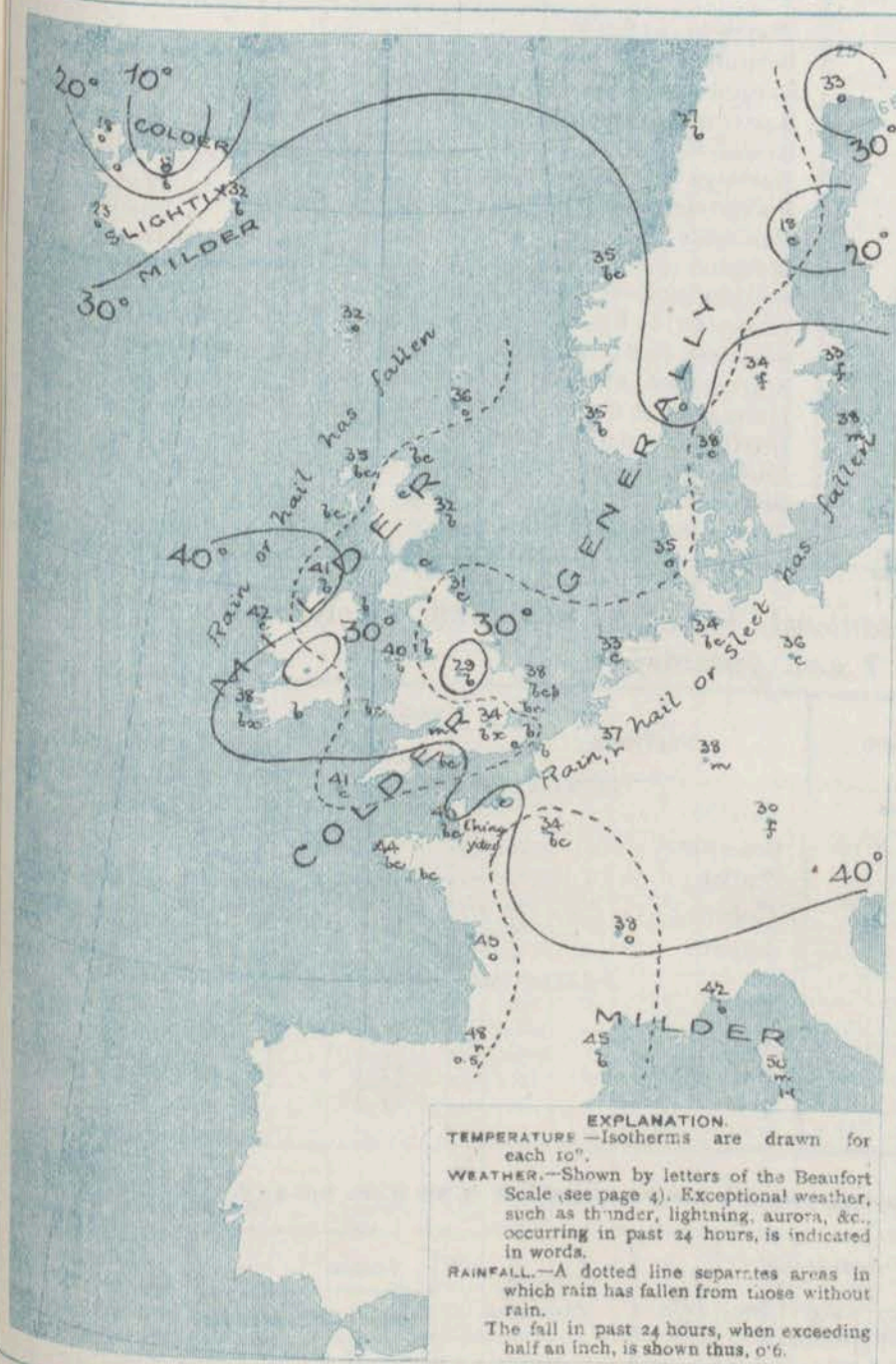
The barometer continues to rise all over north-western Europe, and it is now 29.5 ins up the Norwegian coast. A depression is approaching the Azores, where the barometer has fallen below 29.9 ins. Another depression has appeared near Iceland in the night and the barometer has fallen quickly to 29.3 ins on the south coast. Off our south-western coasts and on the Bay of Biscay pressure is at about 30.1 ins. The gradient is slight generally, very steep over Iceland.

The winds are rather variable in direction, mainly westerly to northerly over the British Isles. Few stations report so much as a moderate breeze. In western Iceland a heavy northerly to north-easterly gale is reported. At the home stations temperature ranges from 28° at Birn Castle to 42° at Blackhead Point; over western Europe from 30° at Munich to 45° at Perpignan and Rochefort; in Scandinavia from 18° at Jernäsund to 38° at Nisby, in Iceland from 8° to 32°. The weather has become fair or fine in nearly all parts of the region under observation but showers are reported at Yarmouth and Brussels, and mist or fog in isolated situations. The sea is rather rough on various parts of the French coasts, moderate to smooth elsewhere.



# CHARTS 8<sup>th</sup> December, 1909.

## 2 TEMPERATURE AND WEATHER AT 7 A.M. TO DAY



### NOTES ON YESTERDAY'S WEATHER.

During yesterday temperatures remained below 40° in most parts of the Islands, the maximum at Lich being 32°. Showers of rain, hail, sleet or snow were experienced in most districts. Lightning was seen at Jersey. Many places had little or no bright sunshine, but Pembroke had 5 hours, and Llandudno 5.7 hours. Wireless reports from the Atlantic show that ships experienced moderate to strong north-westerly winds and fine to dull weather as far west as the 21<sup>st</sup> meridian.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

Under the influence of the south-western anticyclone a westerly to northerly type of conditions is likely to prevail over the southern districts, but the new depression off the south of Iceland will mean less settled weather, and backing winds in the northern districts.

## FORECASTS

For the 24 hours commencing at NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 } Light N.W. breezes, backing S.W. and freshening; fine at first, then less settled, some rain; temperature rising.
- 1 }
- 2 } N.W. and S.W. breezes, light to moderate; generally fair or fine, some mist or fog locally, showers in places later; cold.
- 3 }
- 4 }
- 5 }
- 6 } Same as Nos. 0 and 1.
- 7 }
- 8 } Same as Nos. 2 to 5.
- 9 }
- 10 } Same as Nos. 0 and 1.
- 11 } Light N.W. & S.W. breezes, freshening later; fair or fine, becoming less settled; cold.

### 11 WESTERN CHANNEL AND BAY.

N.W. and S.W. breezes, moderate to light; sea moderate or slight; generally fair or fine, local mist or fog; cold.

### FORECAST DISTRICTS.

Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

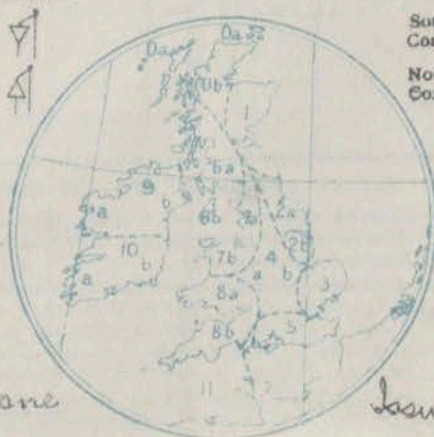
Signals hoisted this morning.

South Cone.

South Cone.

North Cone.

North Cone.



Keane

Issued.



# DAILY WEATHER REPORT. *Wednesday, 8th Decr. 1909.*

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	34	17	3. bc. b	5.5	-	Worthing, to 6 p.m. ...	39	31	r. o. c. o	3.6	0.33
Dublin (City), to 4 p.m....	34	28	op. br. f. o	-	0.02	Brighton, to 6 p.m. ...	40	33	"	1.8	0.34
Rossall Beach, to 6 p.m.	39	32	cr. m. c	-	-	Seaford, to 6 p.m. ...	46	36	o. b. o	1.0	0.22
Blackpool, to 9 p.m. ...	39	34	cm. b	0.0	0.01	Eastbourne, to 6 p.m. ...	44	35	"	2.1	0.39
Southport, to 9 p.m. ...	39	31	o. bc	0.4	0.02	Bexhill-on-Sea, to 9 p.m.	44	35	"	1.7	0.23
Rhyl, to 6 p.m....	41	30	-	0.0	0.07	Hastings ...	"	"	"	1.8	"
Colwyn Bay, to 6 p.m. ...	42	35	p. bc. h. bc	0.0	0.29	Folkestone, to 6 p.m. ...	42	31	r. bc. d	2.5	0.47
Llandudno, to 9 p.m. ...	"	"	"	0.0	"	Ramsgate, to 6 p.m. ...	"	"	"	0.8	0.25
Bettws-y-Coed, to 6 p.m.	39	33	c. o	0.0	"	Margate, to 6 p.m. ...	39	33	"	0.0	0.21
Towyn, to 6 p.m. ...	"	"	"	"	"	Felixstowe, to 6 p.m. ...	39	32	"	1.1	0.10
Aberystwyth, to 6 p.m. ...	44	40	"	2.3	-	Lowestoft, to 6 p.m. ...	37	32	bc. o. c. m	0.1	0.19
Plymouth, to 9 p.m. ...	41	35	"	0.7	0.02	Skegness, to 6 p.m....	35	29	m. f. r. s. c	0.0	0.11
Torquay, to 6 p.m. ...	43	35	"	3.7	0.04	Scarborough, to 9 p.m. ...	44	29	"	0.0	0.45
Weymouth, to 6 p.m. ...	44	36	c. bc	3.6	-	Harrogate, to 6 p.m. ...	34	30	om. s. bc	0.0	0.04
Bournemouth, to 6 p.m. ...	46	33	o. c. bc	2.7	-	Buxton, to 6 p.m. ...	34	29	os. og. f	0.0	0.34
Southsea, to 6 p.m. ...	40	32	"	4.0	0.32	Darwen, to 9 p.m. ...	"	"	"	0.0	0.45
Bognor, to 6 p.m. ...	"	"	"	"	"	Manchester, to 9 p.m. ...	37	31	opd. bc. r	0.0	0.25
						Birmingham, to 9 p.m....	36	31	o. s. o	0.0	0.13

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		Weather.	RAIN.	STATIONS.	TEMPERATURE F.		Weather.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	66	48	b. b	Ins.	Utrecht ...	41	34	o. o	0.12
Marseilles ...	57	37	b. b	0.20	Groningen ...	41	34	o. o	0.32
Malta ...	66	56	bc	-	Zurich ...	"	"	o. b	0.04
Algiers ...	72	57	bc. r	0.03	Geneva ...	"	"	o. o	0.55
Tunis ...	66	46	b. o	-	Lugano ...	"	"	s. bc	Measured
Palermo ...	67	55	b. o	-					0.36
Naples ...	59	55	bc. o	-	Berne ...	43	1.30 p.m.	o	-
Brindisi ...	64	47	b. b	-	Coire ...	43	"	bc	0.75
Rome ...	60	55	r. b	0.12	Castasegna ...	37	"	s	0.28
Vienna ...	43	36	b. r	0.08	Davos ...	32	"	b	"
St. Petersburg ...	26	32	s. o	0.20					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
<i>Saba Michigan</i> { 7th Decr. 1909	50N	18W	29.76	WNW	6-7	-	"	"	"	-				Ins.			
	50N	19W	29.94	WNW	6-7	-	"	"	"	-				"			
<i>Finland</i> { 7th Decr. 1909	50N	17W	29.70	WNW	6-7	-	"	"	"	-				"			
	50N	18W	29.78	WNW	6-7	o	"	"	"	-				"			
<i>Teutonia</i> { 6th Decr. 1909	49N	27W	29.92	NW	4-5	c	"	"	"	-				"			
	49N	26W	29.89	NW	4-5	c	"	"	"	-				"			
	49N	21W	29.83	NW	4-5	c	"	"	"	-				"			
	49N	19W	29.86	NW	4-5	c	"	"	"	-				"			
	49N	15W	29.87	NW	6-7	c	"	"	"	-				"			
	49N	14W	29.88	NW	6-7	c	"	"	"	-				"			

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1.—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.61 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 9 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.
- \* Information for these columns is not usually received.
- † The figures in the "wet bulb" column represent the relative humidity.
- ‡ Received too late for insertion in Charts.

**TERMS OF SUBSCRIPTION for the Daily Weather Report**  
and for transmission of Forecasts by telegraph may be  
obtained on application.

METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.  
**W. N. SHAW, (Director.)**

SCANDINAVIA.

ICELAND & FAEROE.

BRITISH ISLANDS.

GERMANY, & C.

FRANCE.

SPANISH PENIN.



1909.

# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

Thursday  
24 Dec. 1909.

Machine. Hrs. Rainfall Ins. 3-6 0.33 1-8 0.34 1-0 0.22 2-1 0.33 1-7 0.23 1-8 0.47 2-5 0.25 0-8 0.21 0-0 0.10 1-1 0.19 0-1 0.11 0-0 0.05 0-0 0.04 0-0 0.14 0-0 0.05 0-0 0.03

hours

RAIN.

Ins. 0-12 0.32

Measured 7.50 0.36

0-0 0.55

0-7 0.75

0-2 0.28

Wind. Force. Weather.

ather Report  
aph may be

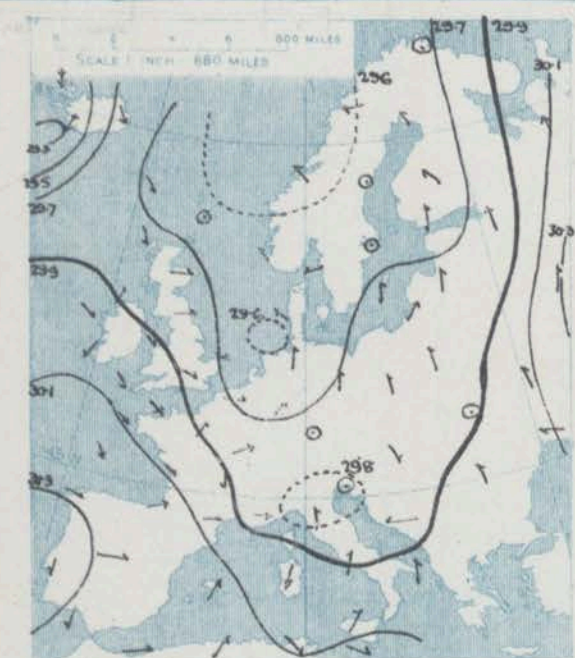
Director.)

STATIONS.		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.	Temperature.			Wind.		Weather.	Sea (0 to 9).	Temp.		Weather.	Sun. shine.	Rainfall.		
				At 32° Fahr. and M.S.L. Lat. 45°	Dry Bulb.			Dirac.	Force (0 to 12).	At 32° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.			Wet Bulb.	Change since Yesterday.				Dirac.	Force (0 to 12).
		Ins.	"	"	"	"	Ins.	Ins.	"	"	"	"	"	"	"	"	"	"	"	"	
SCANDINAVIA.	Haparanda...	29.74	28	W	4	0	30.03	+4.6	19	19	-14	WNW	2	0	34	19	"	"	0.08		
	Hernösand...	29.91	10	Z	0	6	30.17	+1.53	6	5	-12	Z	0	6	19	16	"	"	"		
	Stockholm...	29.98	32	Z	0	f	30.24	+1.58	31	31	-2	Z	0	f	36	31	"	"	"		
	Wisby...	29.96	37	S	2	0	30.15	+4.7	26	35	-2	S	2	f	39	34	"	"	"		
	Karlstad...	29.98	32	Z	0	0	30.28	+1.56	30	29	-4	Z	0	0	"	"	"	"	"		
	Færder (X'ania Fjord)	29.93	24	N	2	C	30.23	+1.57	24	24	-4	NNE	1	f	30	23	"	"	"		
	Bodö...	29.64	29	E	2	6	29.82	+2.9	35	32	+8	S	4	S	36	25	"	"	"		
ICELAND & FAEROE.	Christiansund...	29.78	37	W	1	6c	29.86	+1.35	39	32	+4	SSE	2	6c	4	39	34	"	"		
	Skudesnaes...	29.91	37	E	2	C	30.14	+1.51	39	37	+3	S	6	0	37	34	"	"	"		
	Isafjord...	29.10	26	W	5	0	29.31	-1.08	24	"	+6	NNE	9	S	"	"	"	"	"		
	Reykjavik...	29.14	25	SW	1	0	29.15	-1.15	21	"	-2	SSW	3	6c	"	"	"	"	"		
BRITISH ISLANDS.	Seydisfjord...	29.49	22	NNE	5	S	29.20	-1.59	23	"	-9	SW	6	6c	"	"	"	"	"		
	Thorshavn...	29.69	26	NNW	2	C	29.29	-1.34	47	"	+15	SW	9	7	"	"	"	"	"		
	Sumburgh Head	29.77	39	S	1	C	29.82	+1.15	41	40	+5	WSW	5	0	41	35	0.0	0.03	"		
	Stornoway...	29.94	34	WSW	3	0	29.74	+1.01	46	45	+11	SW	7	7	46	33	be. s. op. 1.3	0.12	"		
	Castlebay (Barra Id.)	30.01	42	WNW	4	0	29.87	+1.07	47	46	+8	SSW	5	0	42	37	be. c. be. op. 2.1	0.04	"		
	Malin Head	30.05	43	WSW	3	be. s.	29.83	+1.11	39	38	-2	SW	4	cg	43	37	be. s. be. m. 0.02	0.02	"		
	Blacksod Pt.	30.11	41	SW	2	be	29.92	-1.03	47	46	+5	SW	6	gm. 4	47	36	be. o. cp. 0.07	0.07	"		
	Valencia...	30.22	38	E	1	be. m.	30.12	+1.07	48	47	+10	SSE	4	7	48	33	be. be. be. 2.3	0.13	"		
	Roche's Point	30.23	41	N	2	6	30.22	+1.20	48	46	+12	SW	3	0	48	34	be. s. f. be. o. 4.8	0.03	"		
	Birr Castle	30.17	32	Z	0	6	30.12	+1.11	41	40	+13	SSW	2	0	42	27	be. be. m. o. c. 6.6	0.01	"		
GERMANY, & C.	Donaghadee...	30.03	36	WSW	3	6	30.16	+1.27	38	38	+5	SSW	3	0	39	28	6. be. m. 6.2	0.01	"		
	Liverpool Obsy...	30.14	39	WSW	4	6	30.30	+1.40	37	36	-2	SSW	3	be	43	36	"	"	"		
	Holyhead...	30.17	42	W	4	6	30.22	+1.31	46	43	+6	SW	3	0	46	38	"	"	"		
	Pembroke (St. Ann's Hd.)	30.19	45	WNW	3	6	30.29	+1.36	47	42	+2	SSW	4	cg	47	37	be. 6	6.2	"		
	Scilly (St. Mary's)	30.21	45	NNW	4	C	30.26	+1.29	41	39	0	SW	4	0	47	40	be. c. 4.4	0.04	"		
	Jersey (St. Aubins)	30.21	41	WNW	2	6	30.44	+1.52	36	34	-4	WNW	2	6	48	34	6. be. be. 4.8	0.01	"		
	Portland Bill	30.16	42	NW	2	be	30.36	+1.46	45	43	+4	WNW	2	be	45	41	6. be 6.5	"	"		
	Dungeness...	30.08	34	NW	3	m. x	30.34	+1.58	30	29	-3	WNW	3	be	40	27	cg. be. m. 4.0	"	"		
	Dover...	"	"	"	"	"	30.38	+1.58	32	32	-2	NNW	2	6	40	31	6	6.7	"		
	Wick...	29.88	32	NW	2	be	29.87	+1.14	40	39	+6	S	3	7	40	30	"	0.10	"		
FRANCE.	Nairn...	29.96	34	WSW	1	be	29.89	+1.15	42	38	+7	WSW	2	0	42	32	c. cu. o. 1.5	0.03	"		
	Aberdeen...	29.97	35	WNW	2	6	30.03	+1.24	36	34	+4	SSW	2	0	39	30	be. c. be. o. 2.7	"	"		
	Leith...	29.99	36	W	2	be	30.07	+1.28	41	37	+9	SW	4	0	41	27	c. be. be. m. 3.7	"	"		
	North Shields	30.01	37	WSW	2	0	30.23	+1.44	38	32	+1	SSW	2	cg	38	28	c. o. 3.7	"	"		
	Spurn Head	30.05	38	WNW	4	be	30.29	+1.53	35	35	0	W	3	6	39	34	be. be. m. 6.2	"	"		
	Yarmouth...	30.02	36	WNW	3	be	30.31	+1.62	31	31	-7	W	2	be	43	31	be 2.0	0.05	"		
	Clacton-on-Sea	30.08	34	NW	3	6	30.33	+1.57	30	30	-4	WNW	2	be	39	30	be. be. m. be. 5.2	"	"		
	Nottingham	30.12	34	W	1	6	30.32	+1.45	31	30	+2	W	1	0	41	28	be. o. be 1.0	"	"		
	Bath...	30.17	32	Z	0	m	30.37	+1.44	28	28	-4	Z	0	m	42	24	"	6.2	"		
	Oxford	30.23	32	WSW	2	6	30.41	+1.48	30	30	-1	SW	1	be. m. x	41	30	6	"	"		
SPANISH PENIN.	London (St. James's Pk)	30.15	35	WNW	1	6	30.37	+1.04	29	28	-5	WSW	1	be	42	28	6. be 3.4	"	"		
	The Scaw (Skagen)	29.92	39	ENE	1	0	30.21	+1.56	39	35	+1	NE	1	0	39	37	"	"	"		
	Fanø...	29.95	35	SE	2	0	30.28	+1.62	29	28	-6	SE	2	f	37	29	"	"	"		
	Cuxhaven...	29.84	37	S	2	0	30.21	+1.60	36	34	+2	N	1	m	39	34	"	"	"		
	The Helder	29.99	43	NNW	4	be	30.28	+1.67	42	40	+9	NNW	1	be	45	32	"	0.04	"		
	Brussels...	"	"	"	"	"	30.35	+1.70	33	32	-4	SW	1	0	40	30	"	0.16	"		
	Berlin...	29.91	37	Z	0	6	30.14	+1.42	33	36	-3	W	2	f	41	32	"	"	"		
	Frankfurt...	29.98	40	NE	3	0	30.23	+1.54	37	34	-1	NW	2	0	41	34	"	"	"		
	Munich...	29.98	32	W	3	S	30.21	+1.42	32	100	+2	NW	4	0	36	30	"	"	"		
	C. Gris Nez	30.11	40	NW	4	m	30.36	+1.68	40	38	+1	NW	4	0	41	37	"	"	"		
SPANISH PENIN.	La Hève	30.25	42	NNW	3	C	30.47	+1.56	42	39	-1	NNW	2	be	45	37	"	"	"		
	Brest...	30.27	44	NNE	3	6c	30.46	+1.48	43	41	-1	ENE	1	0	46	39	"	"	"		
	Lorient...	"	45	N	3	6	"	"	39	39	-3	E	2	0	48	37	"	"	"		
	Rochefort	30.18	44	NNW	3	6	30.47	+1.37	39	39	-6	Z	0	0	48	34	c. 6	0.12	"		
	Biarritz	30.24	47	WNW	6	7	30.48	+1.34	38	37	-10	Z	0	0	52	36	"	0.28	"		
	Paris...	30.13	39	NW	2	6	30.41	+1.58	27	27	-7	SSW	1	0	44	27	"	"	"		
	Belfort...	30.03	32	WSW	4	S	30.35	+1.23	33	31	-2	Z	0	0	38	32	"	0.16	"		
	Lyons...	30.14	37	WNW	2	C	30.36	+1.23	34	33	-4	NW	2	0	43	32	"	"	"		
	Nice...	29.87	42	W	5	6	29.98	+1.23	42	33	0	ENE	4	be	46	37	"	"	"		
	Perpignan	30.13	45	W	4	0	30.32	+1.29	41	36	-4	NW	4	0	52	34	"	"	"		
SPANISH PENIN.	Sanguinaire	29.89	46	W	3	f	30.00	+1.06	45	42	-5	NE	4	be	55	39	"	"	"		
	Corunna...	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"		
	Lisbon	29.38	52	N	3	6	30.43	+1.10	52	50	-1	NE	3	0	59	50	"	"	"		
SPANISH PENIN.	Azores (P. Delgada)	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"		
	" Horta	29.51	66	S	8	0	29.79	-1.10	67	65	+2	SW	7	0	267	66	"	0.16	"		

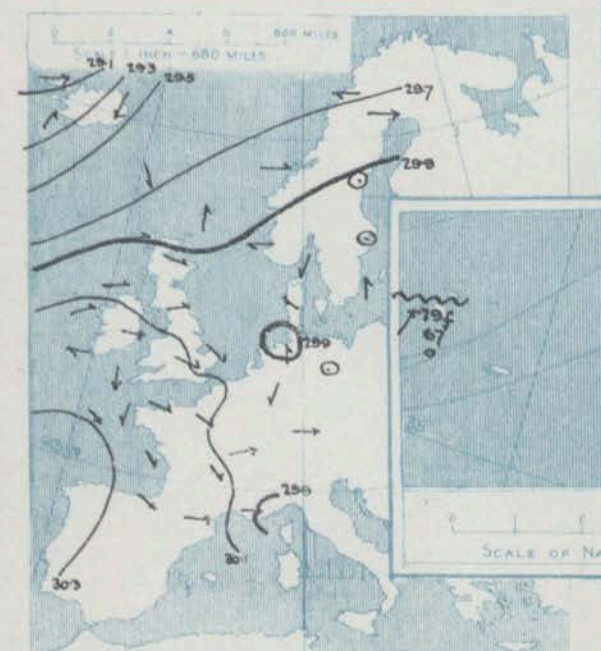


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

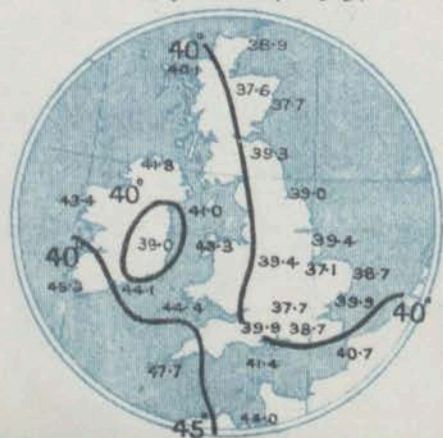
7 A.M. YESTERDAY.



6 P.M. YESTERDAY

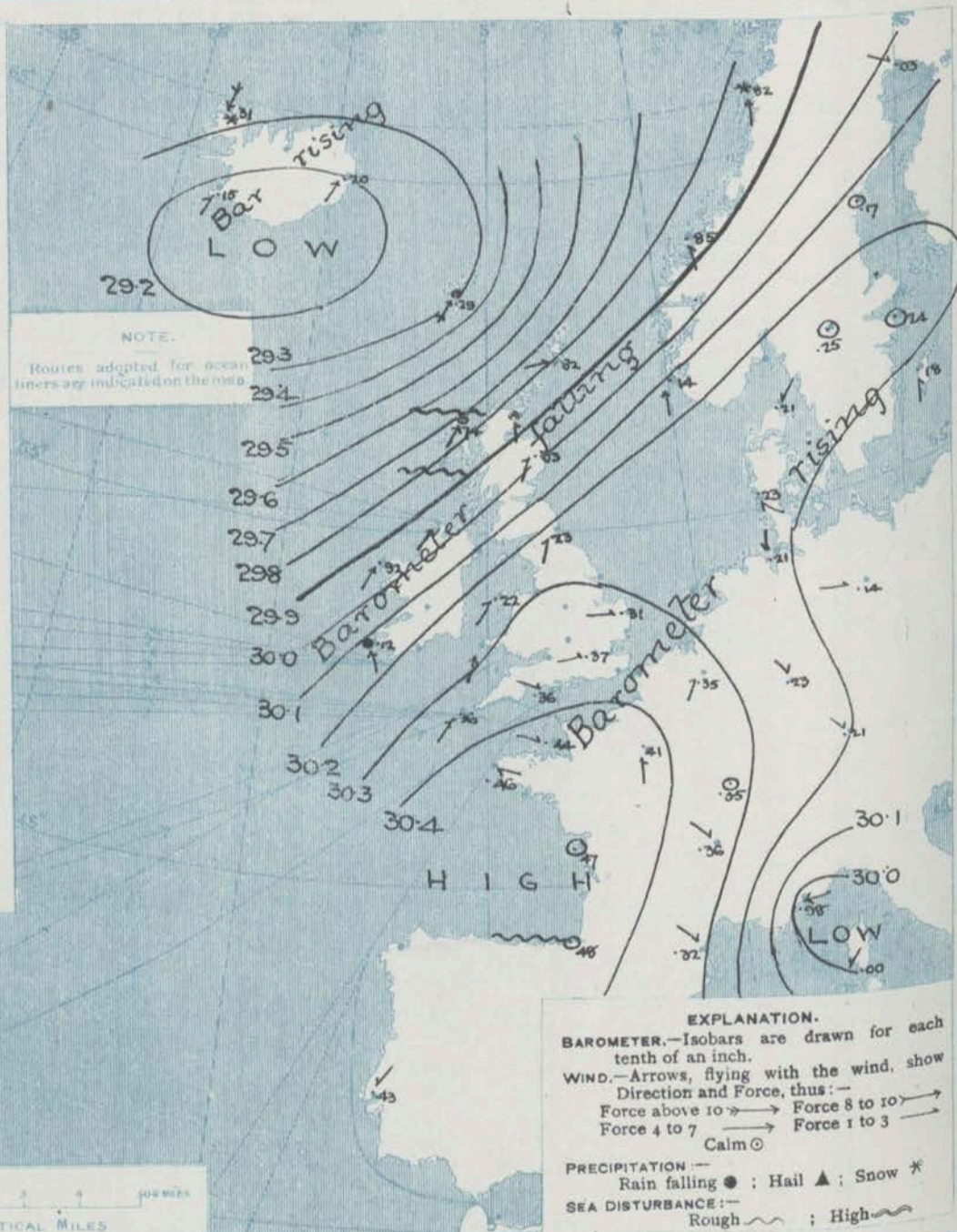


AVERAGES OF TEMPERATURE AT 8. A.M.  
FOR THE MONTH OF DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Thurs., WEATHER 9th Dec.

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

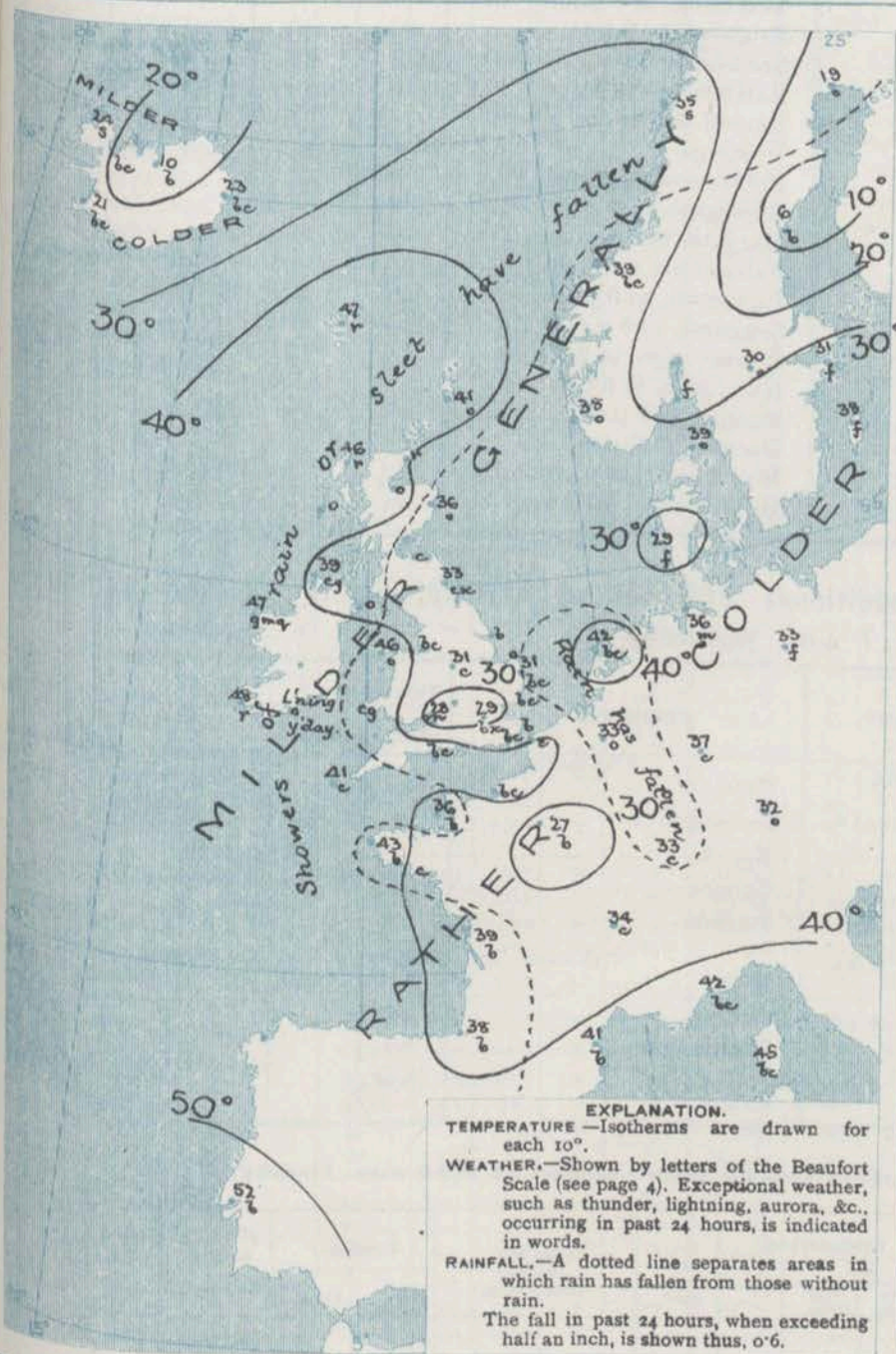
A decided rise of the barometer has taken place over the whole of western and north-western Europe, and it is now at about 30.5 ins. over western France. A well marked depression centred to the southward of Iceland is, however, occasioning a brisk fall on our western and northern coasts. Pressure is below 29½ ins. near Iceland. There is a steep gradient across our northern districts, and between the Faeröe and Norway.

Calm and light variable north-westerly and westerly breezes prevail over eastern England, on the Continent, and in Sweden. In most other regions a southerly or south-westerly current is reported, strong at Blackhead Point and Skudesnaes, high at Stornorway, and a strong gale in the Faeröe. In the north-west of Iceland there is a strong north-westerly gale. At the same stations temperatures range from 28° at Bath to 48° at Rock's Point and Talineia; over western Europe from 27° at Paris to 43° at Mest; in Scandinavia from 6° at Hernösand to 33° at Christianstad; in Iceland from 10° to 24°. Fair to fine weather prevails over England, the western Continental countries and in Iceland, but it has become dull to gloomy in our western and northern districts and in Norway, with rain in various parts of Iceland, Scotland and the Faeröe, snow at Bodö, and in the north-west of Iceland. Between southern Scandinavia and North Germany the atmosphere is misty or foggy. A rough or rather rough sea is running off the Hebrides and at Bearby, on other coasts it is moderate to smooth.



# CHARTS 9<sup>th</sup> December, 1909.

## 2 TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



### NOTES ON YESTERDAY'S WEATHER

During yesterday temperature exceeded 40° in most parts of the British Isles, and at Jersey it reached 48°. Frost occurred in the night in many districts, the thermometer in the shade descending to 24° at Bath. There was bright sunshine at all stations, ranging upwards to 7 hours at Bognor, Worthing, Seaford, and Eastbourne. Slight rain has fallen at most of the northern and western stations, albeit at Stormway. Wireless reports show that ships experienced moderate N.W. winds, fine weather, and a moderate or slight sea on the Bay of Biscay.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

Under the influence of the extensive Icelandic depression a South-Westerly to Southerly type of conditions is likely to spread to all parts of the British Isles, with increasing temperature, and less settled weather.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

0 } Increasing S.W. and S. winds, a gale in places; squally, some rain, local fog; temperatures rising.

2 } Light W. breezes, backing S.W. and freshening; fine at first, less settled later, some rain, fog in places; becoming milder.

5 } Same as Nos. 0 and 1.

7 } Increasing S.W. and S. winds; squally, changeable, some rain; milder.

9 } Same as Nos. 0 and 1.

10 } Same as Nos. 7 and 8.

### 11 WESTERN CHANNEL AND BAY.

Wind backing S.W. and increasing; sea smooth to rather rough, considerable W. swell; fine at first, some rain and fog later; rather milder.

### FORECAST DISTRICTS.

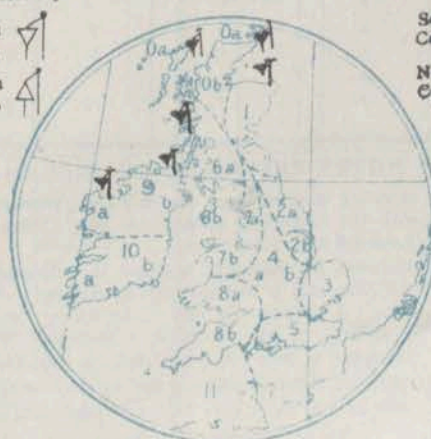
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

South Cone. North Cone.

Signals hoisted this morning.

South Cone. North Cone.





**TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.**

STATIONS.	TEMPERATURE F.		Weather	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	46	22	b. bchp	1.7	0.10	Worthing, to 6 p.m. ...	41	32	b	7.0	-
Dublin (City), to 4 p.m. ...	39	21	bc. cf. c	-	-	Brighton, to 6 p.m. ...	41	33	"	6.8	-
Rossall Beach, to 6 p.m. ...	44	24	b. c	-	0.02	Seaford, to 6 p.m. ...	41	33	"	7.0	-
Blackpool, to 9 p.m. ...	43	26	cm. c	5.6	-	Eastbourne, to 6 p.m. ...	41	34	"	5.3	-
Southport, to 9 p.m. ...	43	27	bf. bc. op. c	4.7	0.07	Bexhill-on-Sea, to 9 p.m. ...	42	33	"	6.2	-
Rhyl, to 6 p.m. ...	44	33	o. c. bc	4.9	-	Hastings ...	"	"	"	6.2	-
Colwyn Bay, to 6 p.m. ...	44	36	bc. b. bc	6.9	-	Folkestone, to 6 p.m. ...	40	33	b	4.8	0.02
Llandudno, to 9 p.m. ...	44	36	o. bc	5.6	0.01	Ramsgate, to 6 p.m. ...	"	"	"	4.2	0.02
Bettws-y-Coed, to 6 p.m. ...	39	27	b. bc	3.3	-	Margate, to 6 p.m. ...	41	34	b	4.2	0.05
Towyn, to 6 p.m. ...	44	28	b	6.0	-	Felixstowe, to 6 p.m. ...	39	32	"	2.5	0.17
Aberystwyth, to 6 p.m. ...	45	41	"	5.2	-	Lowestoft, to 6 p.m. ...	42	31	c. os. op. bc	5.2	-
Plymouth, to 9 p.m. ...	-	-	-	-	-	Skegness, to 6 p.m. ...	40	32	b	4.5	0.15
Torquay, to 6 p.m. ...	46	31	"	6.3	-	Scarborough, to 9 p.m. ...	44	29	bc	4.4	-
Weymouth, to 6 p.m. ...	44	34	x. b	6.5	-	Harrogate, to 6 p.m. ...	37	29	b	4.0	0.01
Bournemouth, to 6 p.m. ...	43	32	b	6.8	-	Buxton, to 6 p.m. ...	36	22	o. b. c. os	4.0	0.01
Southsea, to 6 p.m. ...	42	33	"	6.6	-	Darwen, to 9 p.m. ...	40	27	bc. cu	0.0	0.42
Bognor, to 6 p.m. ...	41	32	b	7.1	-	Manchester, to 9 p.m. ...	37	23	z. m. os	2.6	-
						Birmingham, to 9 p.m. ...	39	31	c. bc. b	-	-

**TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.**

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	"	"	"	Ins.	Utrecht ...	41	32	b. m	0.12
Marseilles ...	52	34	bc. b	0.16	Groningen ...	41	36	o. m	0.04
Malta ...	68	56	"	-	Zurich ...	"	"	o. o	0.24
Algiers ...	66	54	c. c	-	Geneva ...	"	"	r. o	0.08
Tunis ...	70	37	c. c	-	Lugano ...	"	"	b. r	Measured 7.30 a.m. 0.04
Palermo ...	69	54	b. b	-	Berne ...	37	"	"	0.32
Naples ...	60	50	b. o	0.26	Coire ...	37	"	b	0.59
Brindisi ...	65	48	b. o	-	Castasegna ...	30	"	b	0.16
Rome ...	60	46	b. o	0.04	Davos ...	25	"	b	-
Vienna ...	45	30	b. f	-					
St. Petersburg ...	36	32	o. r	0.08					

**WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.**

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Dis- turb- ance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Direc.	Force.		Air.		Sea.			Lat.	Long.		Direc.	Force.	
							Dry Bulb.	Wet Bulb.									
H. M. S.	8th Dec. 7am	46.19N	7.14W	30.18	NNW	4	b	51	46	54	4			Ins.			
	" 10am	46.43N	7.14W	30.17	NNW	4	b	50	47	54	4						
	" 6pm	46.46N	5.54W	30.27	WNW	4	b	49	44	51	3						
	" 7pm	46.17N	5.47W	30.28	WNW	4	b	48	44	51	3						
Finland	7th " 3pm	50N	20W	29.95	NNW	6-7	-	-	-	-	-						
	" 6pm	50N	21W	29.90	NW	4-5	bc	-	-	-	-						
Lake Michigan	7th " 3pm	50N	21W	30.01	WNW	4-5	-	-	-	-	-						
	" 6pm	50N	22W	30.06	WNW	4-5	c	-	-	-	-						

**NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—**

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.61 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

‡ Received too late for insertion in Charts.

**TERMS OF SUBSCRIPTION for the Daily Weather Report**  
and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
38, VICTORIA STREET, S.W.  
**W. N. SHAW, (Director.)**

SCANDINAVIA.

ICELAND & FAEROE.

BRITISH ISLANDS.

GERMANY &c.

FRANCE.

SPANISH PENIN.

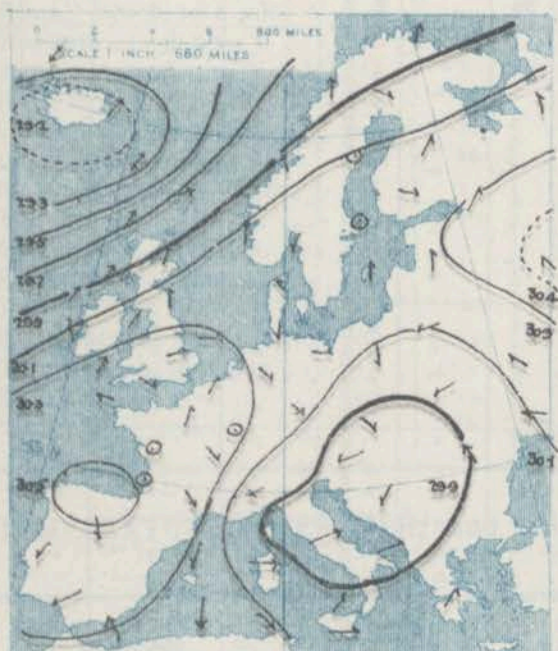


For NOTES see Page 4.

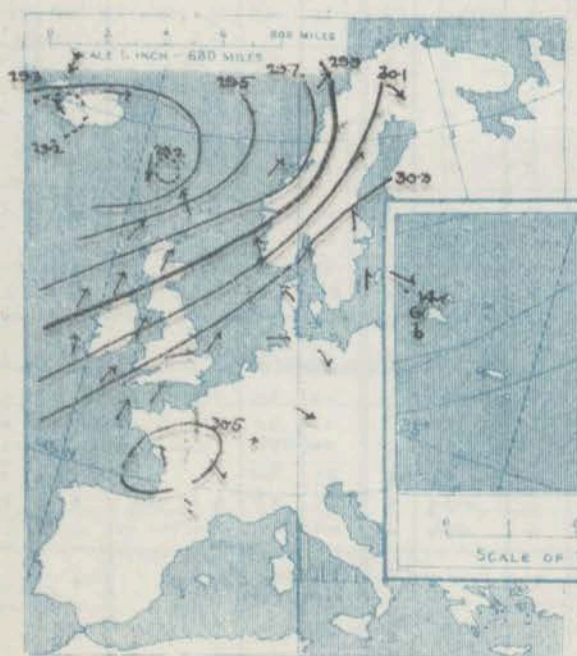


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

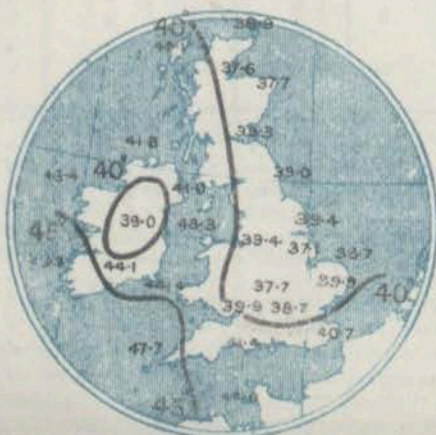
7 A.M. YESTERDAY



6 P.M. YESTERDAY

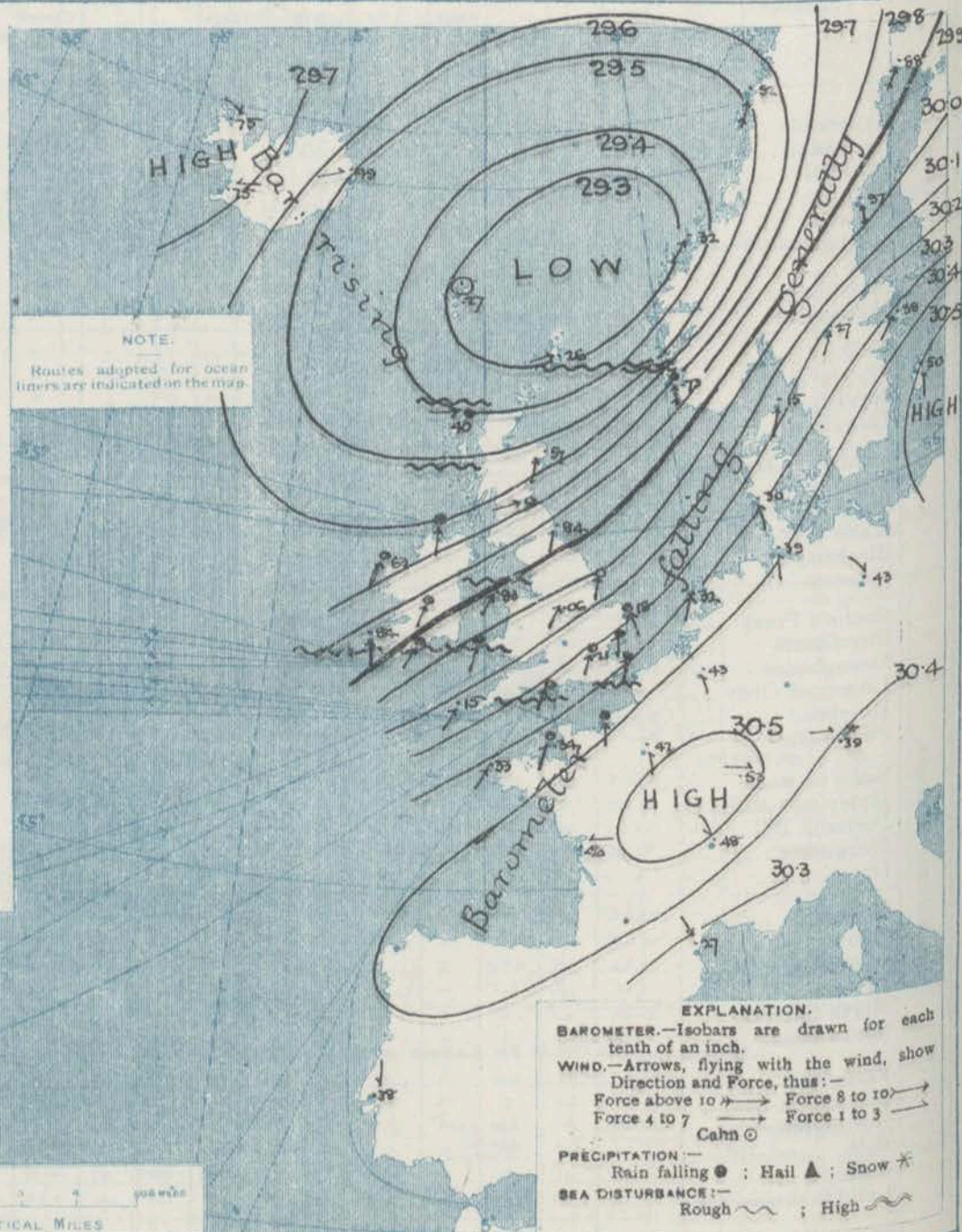


AVERAGES OF TEMPERATURE AT 8. A.M.  
FOR THE MONTH OF DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Friday, WEATHER 10<sup>th</sup> Dec:

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

An area of high pressure now extends from the Azores to the Iberian Peninsula, and hence north-westward to and beyond the Baltic, the barometer being about 30.5 in. over central France and the Baltic region. In a deep depression centred to the northward of Ireland pressure is at 29.26 in. Another disturbance is indicated to the westward of Ireland, the barometer falling all over the British Isles. The gradient is steep across these islands and Scandinavia.

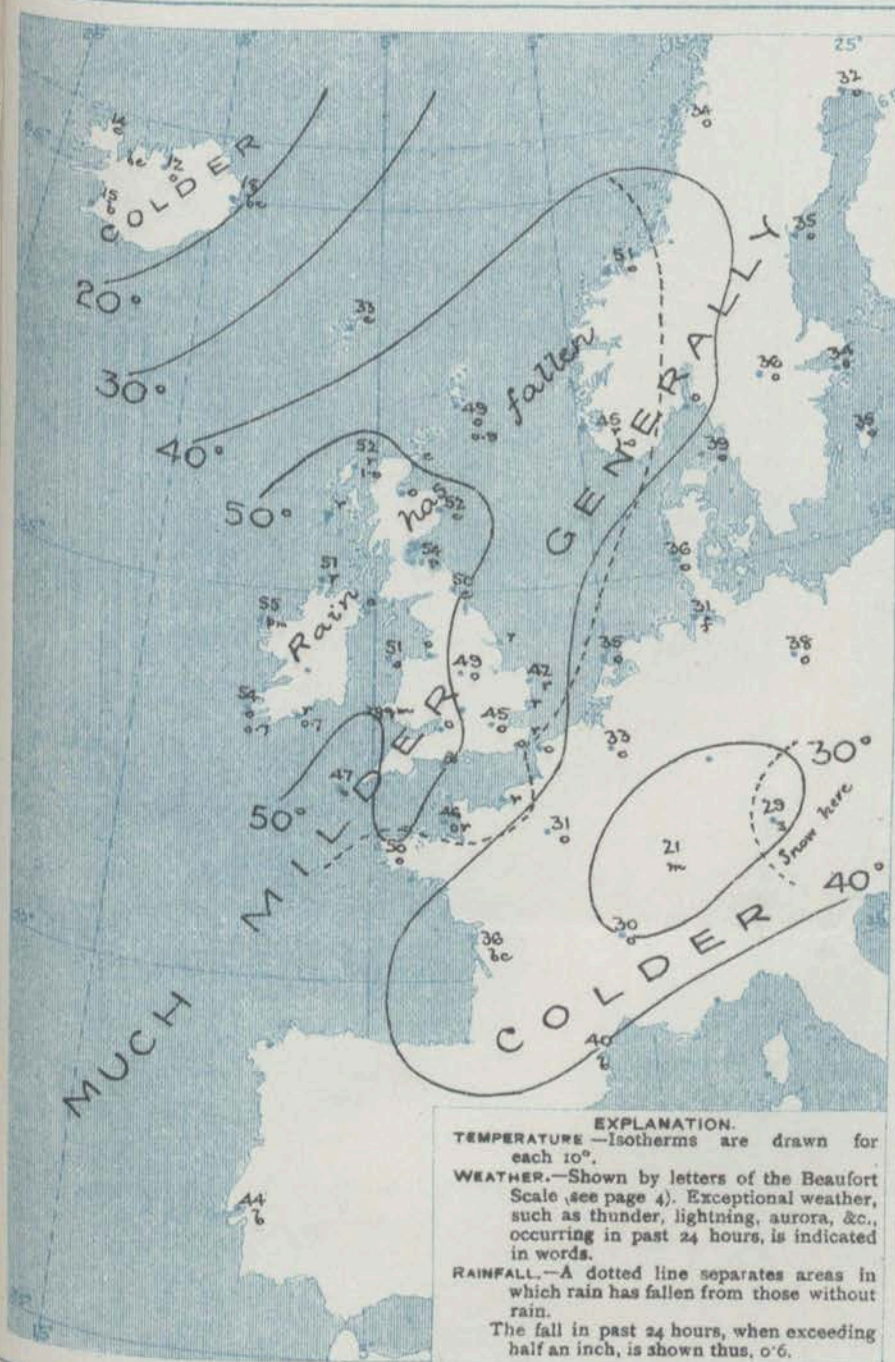
Winds between South and West prevail over nearly the whole of the region under observation, strong or high in force in many localities, a gale over Scandinavia, a strong gale at Skudenes. Excepting at a few foreign stations there has been a great rise of temperature, as much as 15° to 30° in places. At the home stations the values range from 42° at Clacton-on-sea and Great Yarmouth to 55° at Blackhead Point; over Western Europe from 21° at Belfast to 50° at Oslo, in Scandinavia from 32° at Alesund to 51° at Christiania; and in Iceland from 10° to 18°. Dull, damp weather prevails nearly everywhere. Rain is falling in many parts of these islands, at Havre and Skudenes, snow at Munich. At the mouth of the Elbe the atmosphere is very foggy. A high sea is running off Ireland, and it is rough or rather rough on many parts of our western and southern coasts, and off the south of Norway, moderate to slight elsewhere.



# CHARTS

10<sup>th</sup> December, 1909

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



### NOTES ON YESTERDAY'S WEATHER.

During yesterday temperature remained below 50° in most parts of the Kingdom, as low as 40° on the south-east coast, but in the night there has been a rapid rise, Bin Castle and Donaghadee reaching 55°. Rain has fallen generally, heavily in the west and north, 0.7 inch in the south of Ireland, nearly an inch at Donaghadee and in Shetland. Generally in the west and north there was no bright sunshine, but in the south-east the records were large, 6½ hours at Hastings, Folkestone and Falmouth, 5½ hours at Dover. Wireless reports from the Atlantic show that ships experienced south-westerly winds, moderate to strong or a gale, with dull, misty weather as far west as the 20th meridian.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

A mild, rainy southerly to westerly cyclonic type of conditions is likely to prevail over the country generally during the ensuing twenty-four hours.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

0 { a } S.W. to S. winds, fresh to strong, a  
 { b } gale at times in places; squally,  
 some rain; very mild.

1 { a }  
 { b }

2 { a }  
 { b }

3 { a }  
 { b }

4 { a }  
 { b }

5 { a }  
 { b }

6 { a }  
 { b }

7 { a }  
 { b }

8 { a }  
 { b }

9 { a }  
 { b }

10 { a }  
 { b }

### 11 WESTERN CHANNEL AND BAY.

S.W. winds, moderate to strong or high, a gale at times; moderate to high sea and swell, squally, some rain and fog; mild.

### FORECAST DISTRICTS.

Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

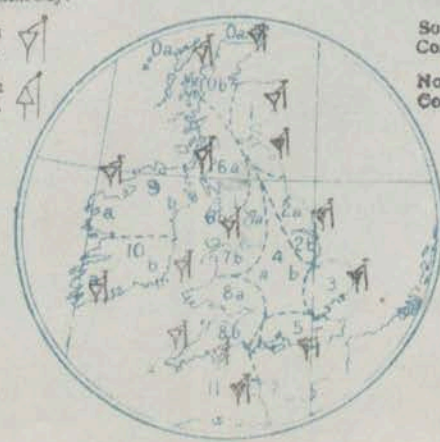
Signals hoisted this morning.

South  
Cone.

South  
Cone.

North  
Cone.

North  
Cone.





# DAILY WEATHER REPORT. Friday, 10th December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	48	30	o. r. q.	0.0	1.10	Worthing, to 6 p.m. ...	45	28	m. c. om	2.0	
Dublin (City), to 4 p.m. ...	50	32	bc. c. ov		0.07	Brighton, to 6 p.m. ...					
Rossall Beach, to 6 p.m. ...	42	23	c. ov		0.04	Seaford, to 6 p.m. ...	45	31	b	4.6	
Blackpool, to 9 p.m. ...	41	23	o. ov. o	0.0	0.17	Eastbourne, to 6 p.m. ...	44	31		5.6	
Southport, to 9 p.m. ...	42	34	ov. c. o	0.0	0.16	Bexhill-on-Sea, to 9 p.m. ...	44	31		5.7	
Rhyl, to 6 p.m. ...	47	32		0.0	0.03	Hastings ...				6.4	
Colwyn Bay, to 6 p.m. ...	48	37		0.5		Folkestone, to 6 p.m. ...	43	32	b. bc	6.5	
Llandudno, to 9 p.m. ...	50	35	bc. c. ov. o	0.1	0.01	Ramsgate, to 6 p.m. ...				6.0	
Bettws-y-Coed, to 6 p.m. ...						Margate, to 6 p.m. ...	40	33	b	4.3	
Towyn, to 6 p.m. ...	46	33	ov. o	0.0	0.17	Felixstowe, to 6 p.m. ...	40	31		6.6	
Aberystwyth, to 6 p.m. ...	45	42		0.5	0.15	Lowestoft, to 6 p.m. ...	42	29	bc. b	5.8	
Plymouth, to 9 p.m. ...	49	29	bc. ov. ov. ov	0.4	0.14	Skegness, to 6 p.m. ...	39	28	b. bc	2.5	
Torquay, to 6 p.m. ...	47	32		2.1		Scarborough, to 9 p.m. ...	41	31		0.0	0.04
Weymouth, to 6 p.m. ...	50	30	bc. bc. c. bc	2.5		Harrogate, to 6 p.m. ...	39	30	b. bc. ov	0.1	0.03
Bournemouth, to 6 p.m. ...	49	30	o. c. bc	3.7		Buxton, to 6 p.m. ...	38	30	sp. bc. ov	0.2	0.19
Southsea, to 6 p.m. ...	46	29		1.3		Darwen, to 9 p.m. ...	37	31	bc. ov. ov. ov	0.0	0.16
Bognor, to 6 p.m. ...						Manchester, to 9 p.m. ...	42	31	o. c. o. ov	0.0	0.11
Paignton to 6 p.m. ...	41	30	bc. d. od	3.1		Birmingham, to 9 p.m. ...	40	31	o. o. r	0.1	

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...				Ins.	Utrecht ...	26	30	b. bc	0.08
Marseilles ...	48	37	c. b		Groningen ...	41	34	c. bc	0.12
Malta ...	63	54	c		Zurich ...			o. s	0.03
Algiers ...	64	54	c. bc		Geneva ...			o. e	0.04
Tunis ...	70	46	thr. o	1.46	Lugano ...			o. bc	
Palermo ...	65	47	bc. o	0.12	Berne ...	36			Measured 7.30 a.m. 0.16
Naples ...	55	45	bc. bc	0.20	Coire ...	34		s	0.08
Brindisi ...	63	47	o. b		Castasegna ...	36		o	0.20
Rome ...	54	40	b. o	1.69	Davos ...	23		s	
Vienna ...	36	32	s. o	0.24					
St. Petersburg ...	36	34	r. o						

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea-Dis-turb-ance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Air.	Wet Bulb.	Dry Bulb.			Lat.	Long.		Dir.	Force.	
Celtic ...	51N	24W	29.77	NW	6-7						Empress of Britain ...	51N	26W	29.64	S	6-7	
Saba ...	51N	25W	29.83	WNW	4-5						Empress of Britain ...	51N	25W	29.66	S	6-7	
Michigan ...	51N	24W	29.97	S	4-5						Empress of Britain ...	51N	20W	29.69	SW	8-9	
Michigan ...	50N	25W	29.89	SSW	4-5						Empress of Britain ...	51N	19W	29.77	SSW	8-9	
Michigan ...	49N	30W	29.90	ESS	4-5						Empress of Britain ...	51N	15W	29.84	SSW	6-7	
Michigan ...	49N	29W	29.90	ESS	4-5						Empress of Britain ...	51N	13W	29.89	SSW		
Michigan ...	49N	26W	29.90	SE	4-5												
Michigan ...	49N	24W	29.90	SSW	4-5												
Michigan ...	49N	22W	29.91	S	4-5												
Michigan ...	49N	21W	29.93	SW	4-5												
Michigan ...	49N	16W	30.01	SW	4-5												
Michigan ...	49N	15W	30.01	SW	4-5												
Michigan ...	49N	15W	30.09	SW	6-7												
Michigan ...	49N	13W	30.09	SW	6-7												
Michigan ...	49N	12W	30.11	SSW	6-7												
Michigan ...	49N	11W	30.15	SSW	6-7												

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1.—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.51 a.m.), with the following exceptions, Bier Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

‡ Received too late for insertion in Charts.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
68, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)

SCANDINAVIA.

ICELAND & FAEROE.

BRITISH ISLANDS.

GERMANY, & C.

FRANCE.

SPAIN.



1909.

## DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

Saturday,  
11<sup>th</sup> December, 1909.

STATIONS.		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.					
		BAROM.		TEMP.	WIND.	Force (0 to 12).	Weather.	BAROMETER.		TEMPERATURE.			WIND.		Force (0 to 12).	Weather.	Sea (0 to 9).	TEMP.		Weather.	Sun- shines.	Rainfall.
		At 32° Fahr. and M.S.L. Lat. 45'	Dry Bulb.	Dirac.	At 32° Fahr. and M.S.L. Lat. 45'			Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Dirac.										
		Inch.	"	"	"	"	Inch.	Inch.	"	"	"	"	"	"	"	"	"	Max.	Min.	"	Hours.	Inch.
SCANDINAVIA.	Haparanda...	29.58	34	S	9	γ	29.65	-1.28	35	32	+3	WSW	4	bc	*	36	28	*	*	*	*	0.43
	Hernösand ...	29.77	35	S	8	0	29.87	-1.10	35	34	0	2	0	0	*	36	23	*	*	*	*	0.02
	Stockholm ...	30.12	35	SSW	6	0	30.05	-1.33	35	35	+1	SW	4	γ	*	36	19	*	*	*	*	0.32
	Wisby ...	30.29	38	S	3	0	30.16	-1.34	38	36	+2	SE	6	C	*	39	30	*	*	*	*	"
	Karlstad ...	29.97	37	SSW	7	γ	29.97	-1.30	39	38	+3	SSW	6	γ	*	*	*	*	*	*	*	0.04
	Færder (X'ania Fjord)	29.78	42	S	9	m	29.84	-1.23	44	43	+3	SSW	6	m	5	34	39	*	*	*	*	0.32
	Bodö ...	29.18	37	SW	8	0	29.50	-0.02	36	34	+2	WNW	9	γ	4	39	28	*	*	*	*	-
	Christiansund ...	29.58	34	W	4	3	29.93	+1.61	36	30	-16	W	6	0	5	38	32	*	*	*	*	0.63
Skudesnaes ...	29.65	47	SW	8	γ	29.84	+1.11	39	37	-6	N	6	C	4	46	37	γ	*	*	*	1.10	
ICELAND & FAEROE.	Isafjord ...	29.82	19	Z	0	3	29.98	+1.23	25	*	+11	2	0	6	*	*	*	*	*	*	*	*
	Reykjavik ...	29.86	13	E	1	C	30.04	+1.29	20	*	+6	E	1	6	*	*	*	*	*	*	*	*
	Seydisfjord...	29.79	15	WSW	9	6	30.04	+1.58	23	*	+5	SW	5	6	*	*	*	*	*	*	*	*
	Thorshavn ...	29.73	30	NNW	4	C	30.07	+1.80	28	*	-5	2	0	0	*	*	*	*	*	*	*	*
BRITISH ISLANDS.	Sumburgh Head	29.60	41	N	1	0	29.94	+1.68	34	38	-16	NE	2	C	2	49	28	0	*	*	*	0.04
	Stornoway ...	29.70	42	NNE	3	0	29.79	+1.39	43	41	-9	SE	7	0	6	52	40	odm. odjmg	0.0	0.12	*	
	Castlebay (Barra Id.)	29.65	44	N	3	0	29.64	+1.13	47	47	-4	ENE	5	γ	5	51	43	md. cp. or	0.0	0.36	*	
	Malin Head ...	29.64	54	WSW	2	m	29.57	-.03	50	50	-1	S	1	bc	1	52	50	smv	*	0.37	*	
	Blacksod Pt. ...	29.61	51	SSW	4	md	29.53	-.10	49	49	-6	SSW	3	m	2	54	48	smv	*	0.23	*	
	Valencia ...	29.66	53	SE	5	m	29.55	-.29	52	52	-2	S	3	m	5	55	51	cp. and m	0.0	0.24	*	
	Roche's Point ...	29.78	51	SW	4	γ	29.65	-.30	50	50	-1	SW	3	f	4	52	49	r. fd	*	0.40	*	
	Birr Castle ...	29.71	53	S	3	γ	29.60	-.20	51	50	-2	S	2	og	*	55	49	o. or	0.0	0.13	*	
	Donaghadee ...	29.73	53	SSW	1	0	29.66	-.11	49	49	-2	SSW	1	m	1	56	48	o. c. om	*	0.08	*	
	Liverpool Obsy...	29.84	52	SSW	3	γ	29.76	-.20	50	49	-1	SE	2	γ	2	54	48	o. or	0.0	0.34	*	
	Holyhead ...	29.80	51	WSW	5	ogm	29.70	-.23	50	50	-1	SW	5	γ	4	52	49	r. ogm	*	0.81	*	
	Pembroke (St. Ann's Hd.)	29.86	51	SSW	6	γ	29.71	-.31	50	50	0	S	4	f	6	52	46	rmg. or m	0.0	0.90	*	
	Scilly (St. Mary's)	29.94	50	SW	5	0	29.74	-.41	48	47	+1	SW	4	od	4	52	45	d. o	0.0	0.10	*	
	Jersey (St. Aubins)	30.16	47	S	4	0	29.95	-.39	46	44	0	SE	5	0	4	48	44	ogpm. odj. og	0.0	0.04	*	
	Portland Bill	30.02	50	SW	6	op	29.82	-.38	49	49	-1	S	5	0	5	50	49	r. cp	0.0	0.10	*	
	Dungeness ...	30.10	47	SSW	6	0	29.97	-.29	45	44	-1	S	6	γ	5	47	44	od. or	0.0	0.15	*	
	Dover ...	*	*	*	*	*	30.01	-.28	47	42	-2	SW	4	γ	6	46	42	cp. or	0.0	0.16	*	
	Wick ...	29.64	45	NE	3	γ	29.88	+1.47	40	38	-9	E	4	0	4	50	37	-	*	0.05	*	
	Nairn ...	29.65	44	WSW	2	γ	29.81	+1.38	42	42	-10	E	1	γ	1	54	40	c. or. or	0.0	0.34	*	
	Aberdeen ...	29.62	49	Z	0	γ	29.84	+1.27	44	44	-8	ENE	2	γ	3	54	42	o. or	0.0	0.20	*	
Leith ...	29.65	54	WSW	2	C	29.71	+1.09	44	44	-10	NNE	2	pf	3	56	44	c. or	*	0.12	*		
North Shields	29.75	53	SSW	3	0	29.76	-.08	49	49	-1	Z	0	0	2	54	47	cp. o. or	0.0	0.28	*		
Spurn Head	29.87	48	SSW	5	γ	29.82	-.17	47	46	+2	SSW	4	0	3	45	45	ofed. or. o	*	0.17	*		
Yarmouth ...	30.03	46	SSW	4	0	29.95	-.23	45	45	+3	SSW	4	op	5	47	42	o. of	0.0	0.50	*		
Clacton-on-Sea	30.10	43	S	4	0	29.97	-.26	43	43	+1	S	4	γ	4	44	41	or. o. or	0.0	0.28	*		
Nottingham	29.92	50	SW	4	γ	29.85	-.21	50	50	+1	SSW	5	0	*	51	48	or	0.0	0.22	*		
Bath ...	29.99	50	SW	6	0	29.85	-.30	50	49	-1	SW	3	0	*	52	50		0.0	0.37	*		
Oxford ...	30.00	49	S	4	γ	29.90	-.27	48	47	0	SE	2	0	*	51	47	od. or	*	0.36	*		
London (St. James's Pk)	30.08	47	SW	4	or	29.93	-.28	47	47	+2	SSW	3	oe	*	49	45	o. od. or	0.0	0.17	*		
GERMANY, & C.	The Scaw (Skagen)	29.96	39	SSW	8	γ	29.96	-.19	40	39	+1	SW	5	0	2	41	37	*	*	*	*	0.24
	Fanö ...	30.11	40	SE	6	bc	30.08	-.22	39	38	+3	SSW	6	0	*	41	36	*	*	*	*	-
	Cuxhaven†...	30.26	33	S	5	6	30.13	-.21	29	26	-2	S	4	6	*	34	28	*	*	*	*	
	The Helder	30.16	38	SSW	5	γ	30.07	-.25	34	33	-1	SSW	5	0	3	41	34	*	*	*	*	0.08
	Brussels ...	*	*	*	*	*	30.13	-.30	31	30	-2	SSW	1	0	*	38	30	*	*	*	*	
	Berlin†...	30.27	35	NNW	1	0	30.26	-.17	36	34	+3	Z	0	0	*	37	33	*	*	*	*	
	Frankfurt†...	30.34	34	NW	3	0	30.19		33	29		NW	3	0	*	39	32	*	*	*	*	
	Munich†...	30.34	30	NW	2	0	30.21	-.18	28	100	-1	SE	2	0	*	32	28	*	*	*	*	
FRANCE.	C. Gris Nez	30.18	42	S	5	0	30.03	-.28	38	38	-6	S	5	γ	4	45	37	*	*	*	*	0.28
	La Hève ...	?	41	S	4	0	30.07	?	40	38	-1	SE	3	C	3	43	37	*	*	*	*	
	Brest ...	30.15	51	SSW	4	m	29.85	-.48	52	52	+2	S	4	γ	3	52	50	*	*	*	*	0.51
	Lorient ...	?	50	SSW	5	0	?	?	50	49	+2	S	5	γ	4	52	48	*	*	*	*	
	Rochefort ...	30.29	41	SE	3	0	30.04	-.42	39	39	+3	S	3	γ	*	43	34	6.0	*	*	*	0.04
	Biarritz ...	30.32	41	E	2	0	30.08	-.41	39	?	+7	ESE	4	γ	2	45	36	*	*	*	*	
	Paris ...	30.34	32	S	2	0	30.16	-.32	30	29	-1	S	2	0	*	35	30	*	*	*	*	
	Belfort...	30.38	29	ENE	4	m	30.19	-.34	28	27	+7	ENE	3	m	*	33	22	*	*	*	*	
Lyons ...	30.34	28	NNW	3	6	30.13	-.35	29	28	-1	N	1	0	*	30	28	*	*	*	*		
Nice ...	30.06	42	Z	0	6	30.01	-.12	39	31	+3	E	4	C	2	52	37	*	*	*	*		
Perpignan ...	30.13	45	W	4	6	30.06	-.21	29	26	-11	N	1	f	*	49	28	*	*	*	*		
Sanguinaire ...	30.06	52	N	3	6	30.00		47	42		E	2	0	4	57	41	*	*	*	*		
SPANISH PENIN.	Coruna ...																					
	Lisbon ...	30.28	54	NNW	4	C	30.14	-.24	58	54	+14	W	1	0	*	58	44	*	*	*	*	
	Azores (P. Delgado)																					
" Horta ...	30.28	59	Z	0	6	30.26	+1.12	57	56	-4	W	1	6	2	56	55	*	*	*	*		

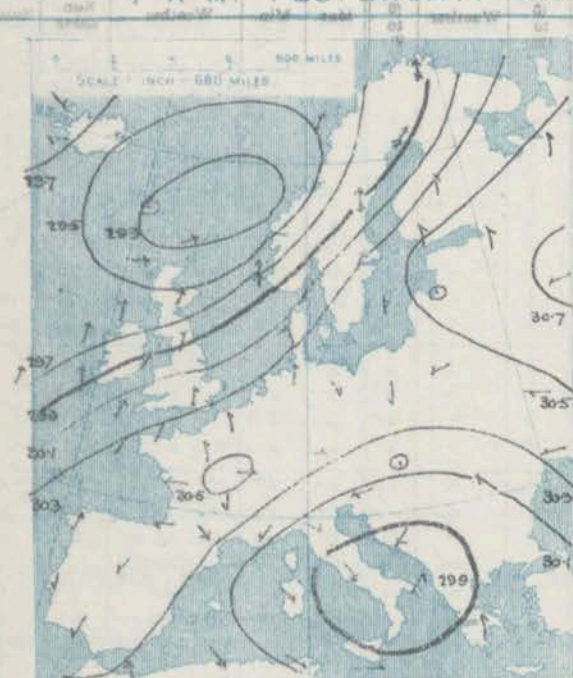


Sakuridan,

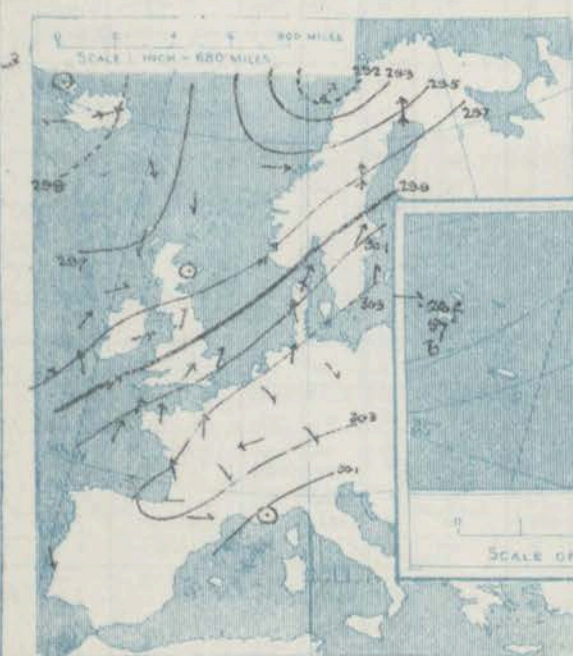
THIS MORNING

FOR 7 A.M. AND 6 P.M. YESTERDAY, W

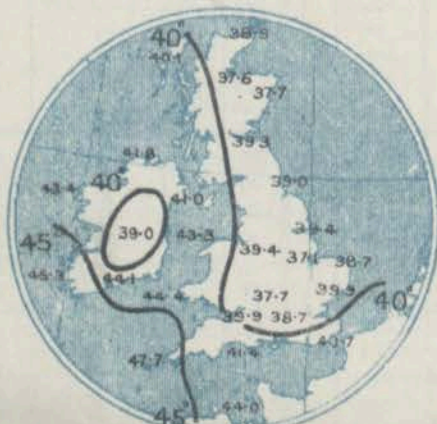
7 A M. YESTERDAY



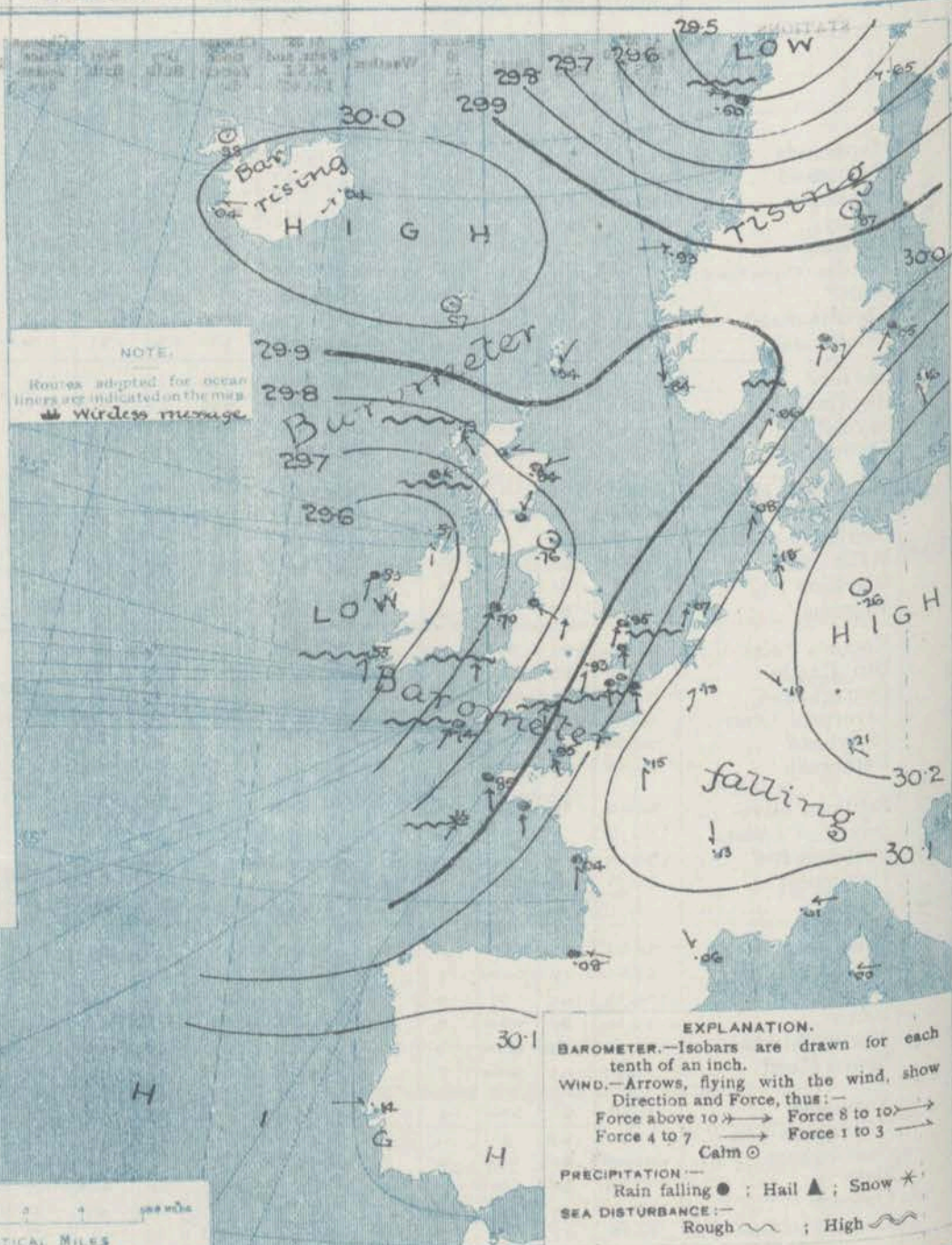
6 P M YESTERDAY



(Derived chiefly from Observations extending over the 35 years—1871-1905.)



## 1. BAROMETER WIND AND SEA AT 7 A.M. TO-DAY.



### NOTES ON THE GENERAL SITUATION AT 7 A.M.

The depression which was yesterday beyond the land has since passed to Lapland, but another disturbance is spreading in from the Atlantic, and the barometer off the west of Ireland and in northern Norway is at about 30.1 in. In a high pressure system between the Bay of Biscay and Russia pressure is at 30.4 in. in Germany, and in another anticyclone which has appeared in the Icelandic region the barometer is about 30 in. The gradient is moderate over Britain and northern Scandinavia, slight elsewhere.

Under the influence of the sun, the pressure softens the winds very greatly in direction, southerly to westerly predominating. As a rule the force is moderate to very light. But Hornøyr reports a high wind, and Bodø a strong gale. At the home stations temperature ranges from  $34^{\circ}$  in Shetland to  $52^{\circ}$  at Luleå, over western Europe from  $28^{\circ}$  at Belfast and Munich to  $53^{\circ}$  at Brest; in Scandinavia from  $35^{\circ}$  up the Swedish coast to  $47^{\circ}$  on Christiania fjord; and in Iceland from  $13^{\circ}$  to  $25^{\circ}$ . On the Bay of Biscay the air temperature is  $34^{\circ}$ , that of the sea water  $53^{\circ}$ . The weather is fine in Iceland, but in nearly all other regions it is overcast to dull and gloomy. Rain is falling in many parts of the British Isles, western and northern France, southern Sweden, and beyond the Arctic Circle. On several parts of our own coast the atmosphere is misty or foggy, also on the Bay of Biscay, and on the Bay of the North Sea.



# CHARTS

11<sup>th</sup> December, 1909.

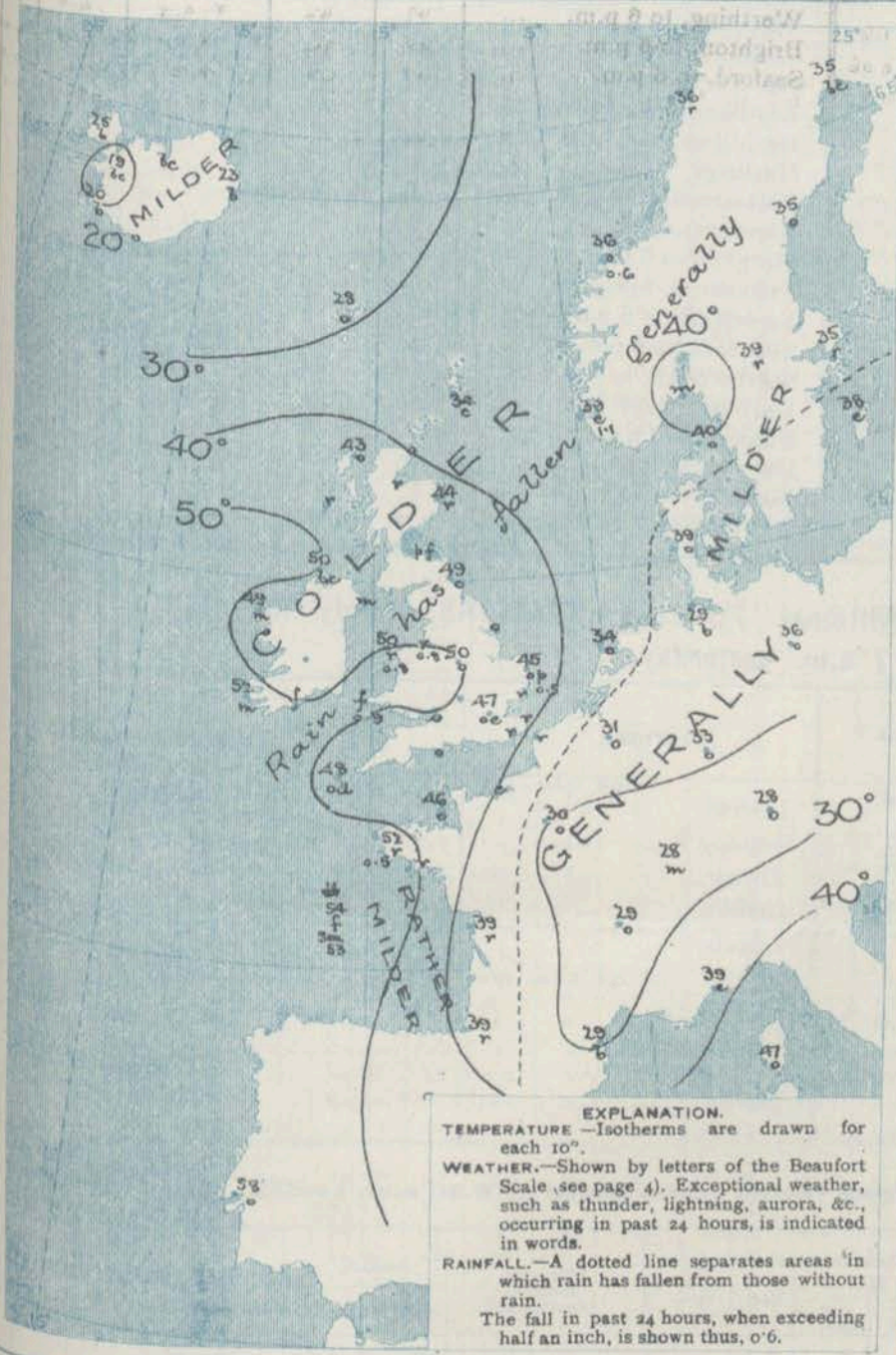
## FORECASTS

For the 24 hours commencing at

NOON TO DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

### 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY



**EXPLANATION.**  
 TEMPERATURE.—Isotherms are drawn for each 10°.  
 WEATHER.—Shown by letters of the Beaufort Scale, (see page 4). Exceptional weather, such as thunder, lightning, aurora, &c., occurring in past 24 hours, is indicated in words.  
 RAINFALL.—A dotted line separates areas in which rain has fallen from those without rain.  
 The fall in past 24 hours, when exceeding half an inch, is shown thus, 0.6.

- 0 } Wind between S.E. and N.E., fresh in places; dull to rainy, sleet or snow in places; colder.
- 1 } S.W. to S.E. breezes, light to fresh; dull, some rain or sleet; mild to-day, colder to-morrow.
- 2 } S. and S.W. winds, fresh at times in places; dull to gloomy, some rain; mild.
- 3 } Same as Nos. 0 and 1.
- 4 } Same as Nos. 3 to 5.
- 5 } Light S. breezes, becoming E. to N.E. later and freshening; dull, some rain, mist or fog; mild at first, becoming colder.
- 6 } S. to S.W. breezes, light to moderate; dull, some rain, mist or fog; mild.
- 7 } S. and S.W. winds, fresh to strong or high; sea moderate to rough; squally, dull, some rain and fog; mild.
- 8 } S. and S.W. winds, fresh to strong or high; sea moderate to rough; squally, dull, some rain and fog; mild.
- 9 } S. and S.W. winds, fresh to strong or high; sea moderate to rough; squally, dull, some rain and fog; mild.
- 10 } S. and S.W. winds, fresh to strong or high; sea moderate to rough; squally, dull, some rain and fog; mild.
- 11 } S. and S.W. winds, fresh to strong or high; sea moderate to rough; squally, dull, some rain and fog; mild.

### NOTES ON YESTERDAY'S WEATHER.

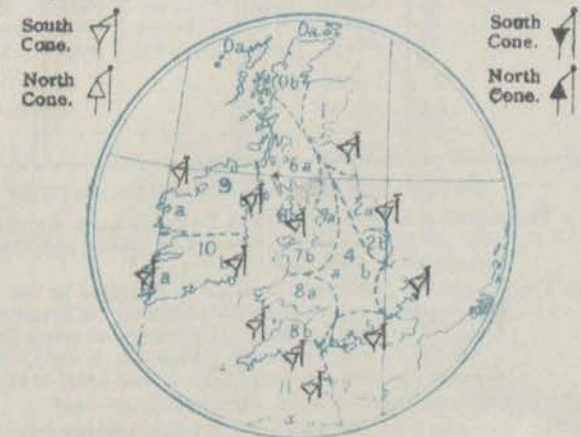
Temperature exceeded 50° in most parts of the British Isles yesterday, the thermometer rising to 56° at Dublin, Donaghadee and Leth. The night has also been very mild, the minimum temperature at a number of stations being between 45° and 51°. Rain fell everywhere, more than 1/2 inch at Liverpool and the Welsh stations. There was no bright sunshine at any station. Wireless reports show that ships experienced light to fresh or strong southerly and south-westerly winds, and dull to misty weather on the Bay of Biscay and as far west as the 20th meridian.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The depression in the west will probably move slowly eastward or south-eastward, with mild southerly conditions in the south, and colder easterly in the north.

### FORECAST DISTRICTS.

Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—  
 Signals hoisted yesterday. Signals hoisted this morning.





## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	54	45	cl.	0.0	1.67	Worthing, to 6 p.m. ...	47	42	r. o. s	0.0	0.13
Dublin (City), to 4 p.m. ...	56	50	cl. c. p	"	0.06	Brighton, to 6 p.m. ...	48	34	"	0.0	0.04
Rossall Beach, to 6 p.m. ...	51	39	cl. o	"	0.54	Seaford, to 6 p.m. ...	48	43	r. o	0.0	0.07
Blackpool, to 9 p.m. ...	51	40	cl. o. or	0.0	0.39	Eastbourne, to 6 p.m. ...	47	44	"	0.0	0.05
Southport, to 9 p.m. ...	52	43	cl. o. or	0.0	0.49	Bexhill-on-Sea, to 9 p.m. ...	46	32	p. d	0.0	0.04
Rhyl, to 6 p.m. ...	55	35	cl. o	0.0	0.11	Hastings ...	"	"	"	0.0	0.05
Colwyn Bay, to 6 p.m. ...	54	47	cl. p. q. bc	0.0	0.10	Folkestone, to 6 p.m. ...	46	31	m. r. c	0.0	0.09
Llandudno, to 9 p.m. ...	55	48	cl. o	0.0	0.24	Ramsgate, to 6 p.m. ...	"	"	"	0.0	0.10
Bettws-y-Coed, to 6 p.m. ...	52	49	cl. o	0.0	"	Margate, to 6 p.m. ...	47	35	"	0.0	0.12
Towyn, to 6 p.m. ...	50	45	cl.	0.0	0.75	Felixstowe, to 6 p.m. ...	44	32	"	0.0	"
Aberystwyth, to 6 p.m. ...	53	47	"	0.0	0.18	Lowestoft, to 6 p.m. ...	"	"	"	0.0	0.17
Plymouth, to 9 p.m. ...	52	48	cl.	0.0	0.57	Skegness, to 6 p.m. ...	47	43	cl.	0.0	0.48
Torquay, to 6 p.m. ...	51	35	"	0.0	0.31	Scarborough, to 9 p.m. ...	52	37	cl.	0.0	0.04
Weymouth, to 6 p.m. ...	51	47	"	0.0	0.37	Harrogate, to 6 p.m. ...	51	39	r. o. p. o	0.0	"
Bournemouth, to 6 p.m. ...	50	34	cl.	0.0	0.50	Buxton, to 6 p.m. ...	"	"	"	0.0	0.67
Southsea, to 6 p.m. ...	48	33	"	0.0	0.25	Darwen, to 9 p.m. ...	49	35	cl. o	0.0	0.51
Bognor, to 6 p.m. ...	"	"	"	0.0	"	Manchester, to 9 p.m. ...	51	42	cl.	0.0	0.39
Paignton to 6 p.m. ...	51	34	"	0.0	0.23	Birmingham, to 9 p.m. ...	49	38	r. o. r	0.0	"

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		Weather.	RAIN.	STATIONS.	TEMPERATURE F.		Weather.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	66	52	b. o	Ins.	Utrecht ...	37	27	f. m	Ins.
Marseilles ...	48	32	b. o	"	Groningen ...	43	30	b. s	"
Malta ...	60	48	"	0.16	Zurich ...	"	"	o. s	0.08
Algiers ...	59	46	bc. r	0.12	Geneva ...	"	"	bc. b	"
Tunis ...	64	34	o. o	"	Lugano ...	"	"	bc. b	"
Palermo ...	"	"	"	"	<p style="text-align: center;">(A.M. &amp; P.M. 1909.)</p> <p style="text-align: center;">Berne ... 1.30 p.m. 36</p> <p style="text-align: center;">Coire ... 1.30 p.m. 34</p> <p style="text-align: center;">Castasegna ... 1.30 p.m. 23</p> <p style="text-align: center;">Davos ... 1.30 p.m. 23</p> <p style="text-align: right;">Measured 7.30 a.m. 0.12</p>				
Naples ...	63	42	b. o	"					
Brindisi ...	63	42	r. b	0.16					
Rome ...	50	39	b. o	"					
Vienna ...	37	34	s. o	0.20					
St. Petersburg ...	36	32	r. o	"					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
H.M.S. {	10th Dec. 4pm	49 10N	25 54W	30.08	SSW	5	52	51	52	5	St Paul {	10th Dec. 4pm	49 10N	25 54W	30.08	SSW	5
	" 6pm	49 14N	26 06W	30.06	SSW	5	52	51	52	5		" 6pm	49 14N	26 06W	30.06	SSW	5
	" 8pm	47 58N	29 56W	29.82	SSW	5	52	52	54	5		" 8pm	47 58N	29 56W	29.82	SSW	5
	" 11th Dec. 8am	47 58N	29 56W	29.79	SW	12	54	54	58	5		" 11th Dec. 8am	47 58N	29 56W	29.79	SW	12
St Paul {	9th Dec. 4am	49 14N	31 W	29.32	S	4.5	"	"	"	"	St Paul {	9th Dec. 4am	49 14N	31 W	29.32	S	4.5
	" 7am	49 14N	30 W	29.20	S	6.7	"	"	"	"		" 7am	49 14N	30 W	29.20	S	6.7
	" 3pm	49 14N	26 W	29.39	S	6.7	"	"	"	"		" 3pm	49 14N	26 W	29.39	S	6.7
	" 6pm	49 14N	25 W	29.48	SSW	4.5	"	"	"	"		" 6pm	49 14N	25 W	29.48	SSW	4.5
	10th Dec. 4am	49 14N	20 W	29.58	SSW	4.5	"	"	"	"		10th Dec. 4am	49 14N	20 W	29.58	SSW	4.5
	" 7am	49 14N	19 W	29.58	SSW	6.7	"	"	"	"		" 7am	49 14N	19 W	29.58	SSW	6.7

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.61 a.m.), with the following exceptions, Eirr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; i. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.  
 † The figures in the "wet bulb" column represent the relative humidity.  
 ‡ Received too late for insertion in Charts.

**TERMS OF SUBSCRIPTION for the Daily Weather Report**  
 and for transmission of Forecasts by telegraph may be  
 obtained on application.

METEOROLOGICAL OFFICE,  
 63, VICTORIA STREET, S.W.  
**W. N. SHAW, (Director.)**

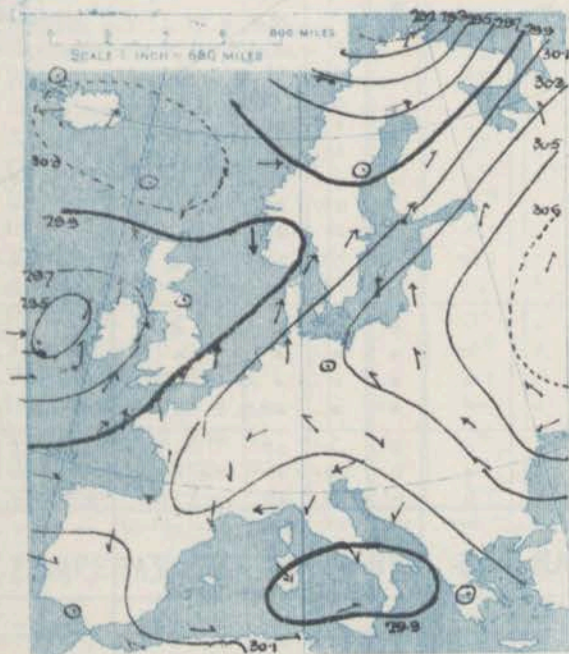


For NOTES see Page 4.

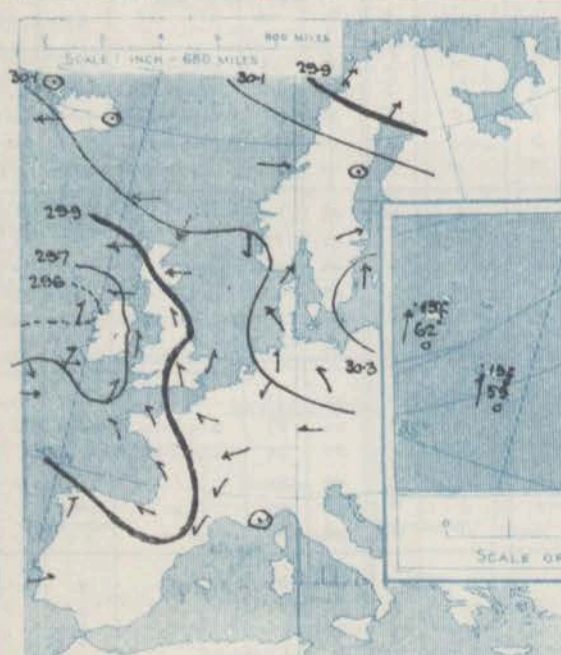


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

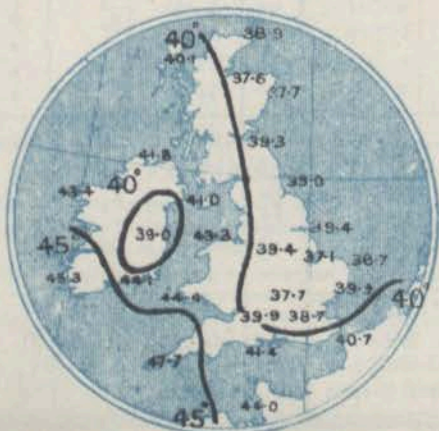
7 A.M. YESTERDAY.



6 P.M. YESTERDAY

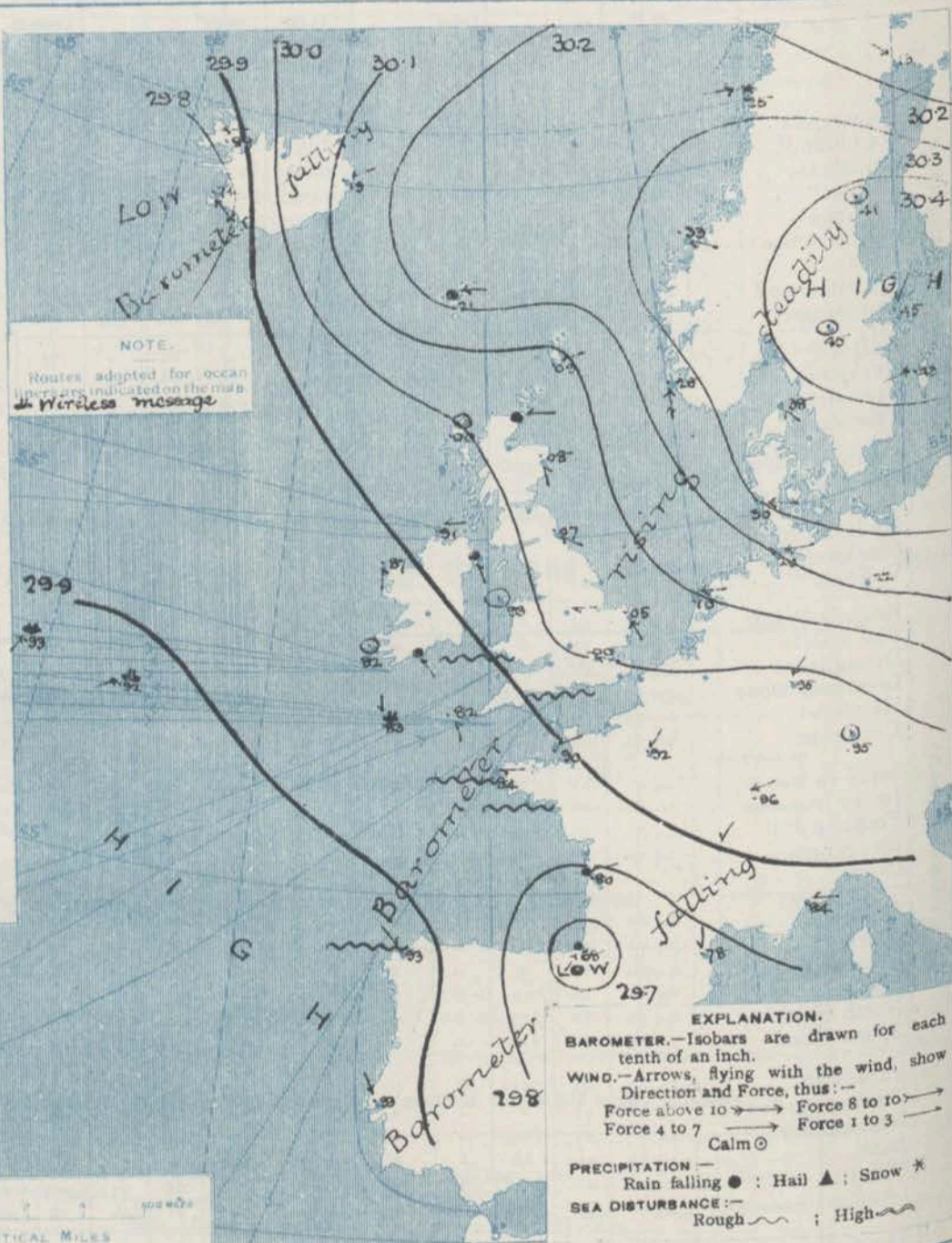


AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE MONTH OF DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Sunday, **WEATHER** 12<sup>th</sup> Decr

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

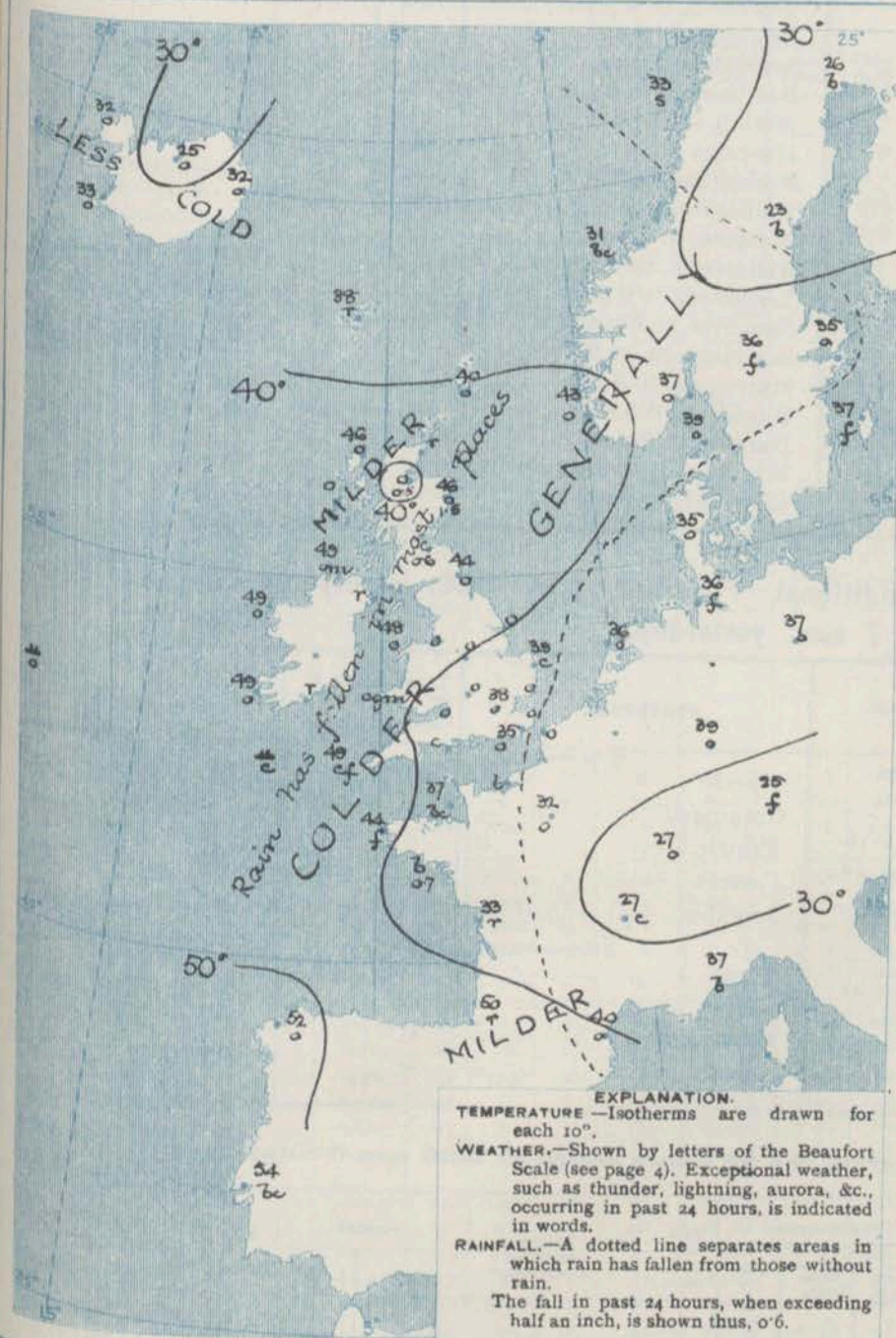
The barometer has fallen over the Peninsula, France and Germany, and also in the west of Iceland, now over the United Kingdom and Scandinavia. The central portion of a large anticyclone is now lying over the southern half of Sweden, and low pressure systems are shown over the south-west of France and to the westward of Iceland.

The wind has become westerly or south-westerly over these Soland and Easterly over the greater part of France and the Netherlands. A southerly gale prevails on the north-west coast of Norway, and a gale from South-South-East at Rugevik. Over our area as a whole there is little force. Temperature has fallen generally. Readings are below 40° in many parts of Great Britain, and as low as 32° at Dover. In Ireland all the values are above 45° and that at Hook's Point 50°. The sky is very cloudy or quite overcast in almost all parts of our area except the extreme north and north-east. Rain is falling at Bunnick, some Irish stations and near at Bidd, while fog is reported at the mouth of the Channel, as well as in the south of Sweden and in some German localities.



# CHARTS 12<sup>th</sup> December, 1909.

## 2 TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



### NOTES ON YESTERDAY'S WEATHER

During yesterday the thermometer rose to 55° at Birr Castle, 54° at Dilly, and to about 53° over a large area in these Islands. Rain has fallen over the United Kingdom and the nearer countries of the continent. At Aberdeen the amount measured is 1.48 in., and at rain and less than 0.5 in. The day was entirely sunless at almost all stations in the United Kingdom. Various reports from the Atlantic show that ships experienced freshly winds, moderate to a gale in force, as far west as the 23rd meridian.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the districts indicated by the numbers 0-11—see map at foot.

- 0 { a  
b
- 1
- 2 { a  
b
- 3
- 4 { a  
b
- 5
- 6 { a  
b
- 7 { a  
b
- 8 { a  
b
- 9 { a  
b
- 10 { a  
b

*None issued*

### II WESTERN CHANNEL AND BAY.

### FORECAST DISTRICTS.

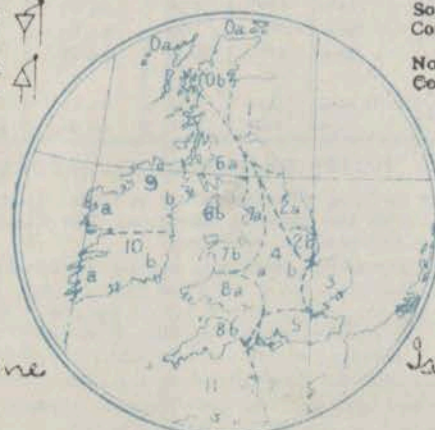
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

South Cone.   
North Cone.

Signals hoisted this morning.

South Cone.   
North Cone.



*30 One*

*Issued*



# DAILY WEATHER REPORT.

Sunday, 12th December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	54	48	dr	0-0	-	Worthing, to 6 p.m. ...	46	45	T. 0	0-0	0-15
Dublin (City), to 4 p.m. ...	55	43	p. o. c	-	0-02	Brighton, to 6 p.m. ...	49	43	T. 0	0-0	0-19
Rossall Beach, to 6 p.m. ...	56	48	c. r. o	-	0-52	Seaford, to 6 p.m. ...	49	43	T. 0	0-0	0-11
Blackpool, to 9 p.m. ...	51	46	dr, o	0-0	0-57	Eastbourne, to 6 p.m. ...	46	44	-	0-0	0-10
Southport, to 9 p.m. ...	51	48	o. r. o	0-0	0-40	Bexhill-on-Sea, to 9 p.m. ...	46	44	-	0-0	0-10
Rhyl, to 6 p.m. ...	53	49	o. r	0-0	0-41	Hastings ...	45	39	c. o. r. o. bc	0-0	0-16
Colwyn Bay, to 6 p.m. ...	53	49	c. o	0-0	0-41	Folkestone, to 6 p.m. ...	45	39	-	0-0	0-10
Llandudno, to 9 p.m. ...	52	49	dr o	0-0	0-23	Ramsgate, to 6 p.m. ...	43	37	T. 0	0-0	0-30
Bettws-y-Coed, to 6 p.m. ...	55	50	-	0-0	0-30	Margate, to 6 p.m. ...	45	41	-	0-0	0-22
Towyn, to 6 p.m. ...	52	48	dr, o	0-0	1-18	Felixstowe, to 6 p.m. ...	46	43	T. 0	0-0	0-61
Aberystwyth, to 6 p.m. ...	50	49	-	0-0	0-35	Lowestoft, to 6 p.m. ...	49	40	st. v. d. om	0-0	0-48
Plymouth, to 9 p.m. ...	50	45	r	0-0	0-40	Skegness, to 6 p.m. ...	49	44	dr	0-0	0-51
Torquay, to 6 p.m. ...	48	47	o. r	0-0	0-38	Scarborough, to 9 p.m. ...	51	47	dr, o	0-0	0-03
Weymouth, to 6 p.m. ...	46	45	og	0-0	0-20	Harrogate, to 6 p.m. ...	49	44	dr, o	0-0	0-03
Bournemouth, to 6 p.m. ...	51	50	r	0-0	0-22	Buxton, to 6 p.m. ...	49	44	dr, o	0-0	0-03
Southsea, to 6 p.m. ...	51	50	r	0-0	0-22	Darwen, to 9 p.m. ...	49	44	dr, o	0-0	0-03
Bognor, to 6 p.m. ...	51	50	r	0-0	0-22	Manchester, to 9 p.m. ...	49	44	dr, o	0-0	0-03
Pasignton ...	51	50	r	0-0	0-22	Birmingham, to 9 p.m. ...	49	44	dr, o	0-0	0-03

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		Weather.	RAIN.	STATIONS.	TEMPERATURE F.		Weather.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	66	50	b. o	Ins.	Utrecht ...	39	30	bc. bc	-
Marseilles ...	46	30	b. b	-	Groningen ...	36	32	o. o	0-12
Malta ...	59	47	bc	0-16	Zurich ...	3	*	b. s	-
Algiers ...	57	46	c. bc	0-08	Geneva ...	*	*	o. o	-
Tunis ...	54	34	o. m	-	Lugano ...	*	*	b. o	-
Palermo ...	59	38	bc. b	-	Berne ...	32	*	o	Measured 7.30 a.m. 0-04
Naples ...	49	41	o. bc	-	Coire ...	32	*	o	0-08
Brindisi ...	54	46	c. r	0-08	Castasegna ...	37	*	b	-
Rome ...	50	36	o. o	-	Davos ...	19	*	b	0-16
Vienna ...	36	32	s. o	0-32					
St. Petersburg ...	34	30	o. o	-					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
Oceanic ...	51N.	15W.	29.71	SW	6-7	-	-	-	-	-	Dec. 12. 4 a.m.	48N.	36W.	29.11	SE	1-3	-
	51N.	16W.	29.58	SW	6-7	m	-	-	-	-	" 7 a.m.	48N.	35W.	29.13	S	1-3	-
	51N.	20W.	29.46	WNW	4-5	-	-	-	-	-	" 3 p.m.	49N.	32W.	29.11	2	0	-
	51N.	21W.	29.53	W	4-5	m	-	-	-	-	" 6 p.m.	49N.	31W.	29.15	S	4-5	-
Canada ...	48N.	36W.	29.20	SE	4-5	-	-	-	-	-	" 10 a.m.	50N.	26W.	29.23	SSW	4-5	-
	49N.	35W.	29.17	SSE	4-5	m	-	-	-	-	" 7 a.m.	50N.	25W.	29.32	SSW	4-5	-
	49N.	32W.	29.19	SSW	1-3	-	-	-	-	-	" 3 p.m.	50N.	22W.	29.31	W	0	-
	49N.	31W.	29.21	SSW	1-3	f	-	-	-	-	" 6 p.m.	51N.	20W.	29.42	2	4-5	-
	50N.	28W.	29.36	SSW	4-5	-	-	-	-	-	" 11 a.m.	51N.	16W.	29.49	W	4-5	-
	50N.	27W.	29.37	SSW	4-5	o	-	-	-	-	" 7 a.m.	51N.	15W.	29.46	W	4-5	-
Minneapolis ...	51N.	11W.	29.61	W	6-7	-	-	-	-	-	" 3 p.m.	51N.	11W.	29.53	WSW	1-3	-
	51N.	11W.	29.58	W	6-7	o	-	-	-	-	" 6 p.m.	51N.	10W.	29.61	WSW	4-5	-

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1.—

(a) The morning observations are at 7 a.m., Western European time, (French Stations 6.51 a.m.), with the following exceptions, Brix Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.

(b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. haze; l. lightening; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. near frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

‡ Received too late for insertion in *Chartis*.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

Monday  
13th December 1909

STATIONS.		YESTERDAY EVENING.					THIS MORNING.								PAST 24 HOURS.					
		BAROM.		TEMP.		WIND.	BAROMETER.		TEMPERATURE.			WIND.			SEA.		WEATHER.		Sun. shins.	Rainfall.
		At 82° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Dir.	Force (0 to 12).		Weather.	At 82° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Dir.	Force (0 to 12).	Weather.	Sea (0 to 9).	Max.	Min.		
SCANDINAVIA.																				
Haparanda...		30.40	19	N	2	b	30.77	+0.4	13	13	-13	N	2	b	28	713				
Hernösand...		30.50	22	N	2	o	30.66	+0.25	22	21	-1	N	2	bc	28	10				
Stockholm...		30.54	36	SW	2	f	30.65	+0.20	32	31	-3	NNW	4	o	36	32				
Wishby...		30.54	28	SW	2	o	30.58	+0.15	38	37	+1	NW	4	m	39	32				
Karlstad...		30.56	27	2	0	o	30.72	+0.27	35	35	-1	2	0	o	3	3				0.04
Färder (X'ania Fjord)		30.52	39	2	0	o	30.66	+0.27	36	35	-1	ESE	2	o	1	1				
Bodö...		30.54	28	E	4	b	30.62	+0.37	27	24	-6	E	2	b	34	23				0.20
Christiansund		30.48	34	E	2	s	30.55	+0.22	38	37	+7	2	0	o	4	38	28			
Skudesnaes		30.47	41	SW	4	c	30.60	+0.32	38	38	-5	S	2	c	43	36				
ICELAND & FAEROE.																				
Isafjord		29.49	34	2	0	o	29.65	-0.23	37	3	+5	SW	9	r	3	3				
Reykjavik		29.56	38	S	3	o	29.75	+0.01	40	2	+7	S	1	r	3	3				
Seydisfjord...		29.98	37	SSE	4	r	29.81	-0.38	45	3	+13	2	0	bc	3	3				
Thorshavn		30.20	41	E	4	o	30.24	+0.05	47	2	+9	SE	3	o	3	3				
BRITISH ISLANDS.																				
Sumburgh Head		30.22	45	S	4	r	30.46	+0.37	44	44	+4	S	3	o	44	35	f, r, o			0.04
Stornoway		30.20	47	SE	2	o	30.39	+0.39	36	36	-10	N	1	b	1	1	om, o, 3m			0.0
Castlebay (Barra Id.)		30.19	49	SE	4	o	30.37	+0.40	46	44	-2	S	3	o	44	45	om, o, bc, o			0.0
Malin Head		30.18	45	SE	2	cm	30.32	+0.41	44	44	-5	SE	2	ogm	2	50	bc, m			
Blacksod Pt.		30.05	49	SSE	3	cm	30.30	+0.43	42	41	-7	NE	2	o	2	51	om, bc, o			
Valencia		30.06	51	ESE	3	c	30.23	+0.41	45	43	-4	NE	1	o	4	53	a, bc			2.4
GERMANY, & C.																				
Roche's Point		30.09	46	ESE	3	o	30.22	+0.37	44	43	-6	NE	2	o	2	50	fd, o, om			0.06
Birr Castle		30.10	46	S	2	o	30.27	+0.37	43	42	-6	S	1	og	3	50	ov, og			0.05
Donaghadee		30.17	45	KSE	3	o	30.33	+0.35	47	46	+1	E	4	o	3	49	o			0.02
Liverpool Obsy...		30.16	40	ESE	3	o	30.27	+0.27	44	43	+3	NE	3	o	2	45	og, o			0.0
Holyhead		30.10	41	E	3	bc, m	30.27	+0.34	46	44	-2	E	3	o	2	45	o, bc, m			
Pembroke (St. Ann's Hd.)		30.07	40	ESE	3	o	30.17	+0.28	43	42	-2	NE	3	ogm	4	46	ogm, ogm, m			0.5
FRANCE.																				
Scilly (St. Mary's)		29.95	49	ESE	3	cm	30.07	+0.25	45	42	-4	ESE	3	o	3	51	o, cm			0.06
Jersey (St. Aubins)		29.96	37	ESE	3	o	30.08	+0.18	39	37	+2	ESE	4	b	3	39	o, cm, og, bc			0.0
Portland Bill		29.99	39	ESE	4	o	30.11	+0.20	44	43	+2	NE	4	o	5	44	o			0.04
Dungeness		29.94	43	NNE	4	r	30.15	+0.18	44	43	+9	ESE	4	o	3	44	o, op			0.06
Dover		"	"	"	"	"	30.19	+0.18	42	41	+10	NE	1	b	2	42	o, op			0.03
SPAIN.																				
Wick		30.23	45	E	3	o	30.44	+0.42	44	43	-1	S	3	o	3	46	o, bc, m			0.02
Nairn		30.24	38	2	0	f	30.41	+0.39	30	30	-9	2	0	f	1	42	o, bc, m			0.02
Aberdeen		30.32	43	SSE	2	o	30.48	+0.40	43	42	-3	ESE	2	3	46	43	o, d, o			0.01
Leith		30.24	45	E	2	c	30.42	+0.40	43	43	-2	NE	1	r	3	46	bc, c, o			0.01
North Shields		30.25	42	E	3	o	30.39	+0.32	44	44	0	S	1	d	2	44	o, d			0.0
Spurn Head		30.12	43	E	5	o	30.28	+0.23	43	41	+1	ESE	5	o	5	44	o, op, d, o			
GERMANY, & C.																				
Yarmouth		30.07	42	ESE	5	o	30.25	+0.20	42	41	+3	ESE	5	bc	5	43	o, bc			0.0
Clacton-on-Sea		30.02	42	NE	3	o	30.21	+0.19	42	41	+5	NE	3	o	3	44	og, pd			0.0
Nottingham		30.11	40	ESE	4	r	30.28	+0.23	41	41	+1	E	3	d	3	43	o, o, d			0.03
Bath		30.05	38	E	1	o	30.20	+0.20	42	41	+3	2	0	o	3	42	-			0.01
Oxford		30.08	40	ESE	2	o	30.26	+0.21	41	41	+3	NE	3	odg	3	42	o, o, d, d			0.02
London (St. James's Park)		30.02	39	NE	3	odm	30.00	+0.20	43	42	+5	ESE	3	oe	3	43	o, odm, oe			0.01
FRANCE.																				
The Scaw (Skagen)		30.51	36	SE	1	o	30.63	+0.25	34	34	-5	ESE	1	f	1	39	34			
Fanö		30.41	35	NE	6	bc	30.51	+0.21	36	35	+1	E	4	o	3	37	35			
Cuxhaven†		30.35	38	E	4	o	30.43	+0.23	34	32	-2	E	5	o	3	38	34			
The Helder		30.13	37	E	5	o	30.32	+0.2	37	35	+1	ESE	3	o	2	37	36			
Brussels		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"			
Berlin†		30.19	37	NE	5	o	30.43	+0.21	33	39	-4	E	2	o	3	39	32			
Frankfurt†		30.00	41	NE	4	b	30.18	+0.23	35	37	-4	NNE	4	b	3	45	35			
Munich†		30.02	30	NW	1	o	30.18	+0.23	21	100	-4	2	0	f	3	30	19			
SPAIN.																				
C. Gris Nez		29.94	40	ESE	2	o	30.17	+0.18	38	37	+7	ESE	3	m	2	41	31			
La Hève		30.01	34	NE	1	m	30.15	+0.14	32	30	+2	ESE	1	m	1	39	32			
Brest		29.96	37	NE	2	o	30.04	+0.20	38	36	-6	E	3	o	2	50	36			
Lorient		"	33	ESE	4	o	"	"	35	35	-2	ESE	4	o	5	48	30			
Rochefort		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"			
Biarritz		29.81	43	E	1	r	29.85	+0.17	41	41	-9	E	3	o	2	50	39			
GERMANY, & C.																				
Paris		29.93	31	NE	2	b	30.11	+0.19	28	28	-4	N	2	f	3	36	27			
Belfort		29.97	27	ESE	4	m	30.13	+0.17	26	25	-1	ESE	4	m	3	31	25			
Lyons		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"			
Nice		30.03	40	E	2	b	29.93	+0.09	44	38	+7	E	2	o	3	50	37			
Perpignan		29.80	42	2	0	o	29.94	+0.16	43	42	+3	N	2	o	3	46	27			
Sanguinaire		29.84	46	N	6	bc	29.91	"	47	43	"	SE	2	o	4	52	43			
SPAIN.																				
Corunna		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"			
Lisbon		29.95	52	N	4	o	29.91	-0.02	53	51	-1	NNW	4	bc	3	57	52			
Azores (P. Delgada)		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"			
" Horta		30.04	64	SSW	4	bc	29.94	-0.21	64	61	+2	SSW	5	o	3	64	62			



SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

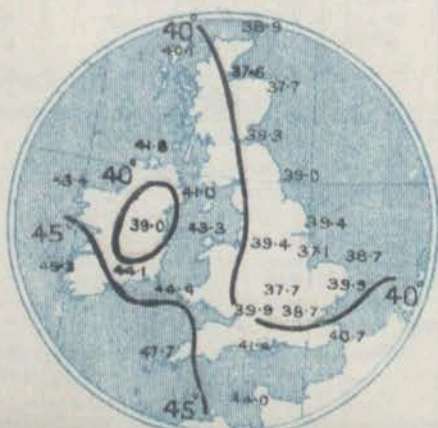
7 A.M. YESTERDAY.



6 P.M. YESTERDAY



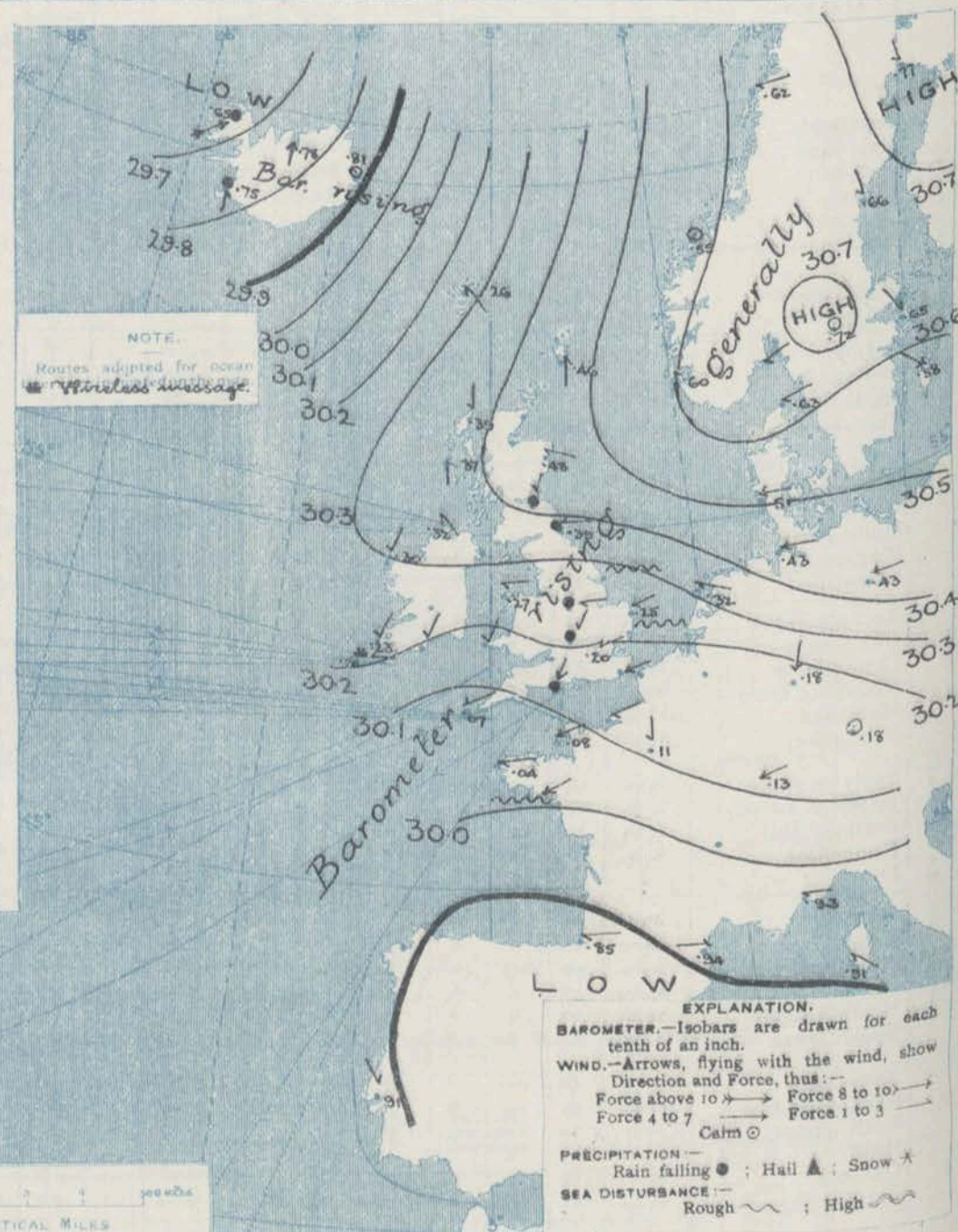
AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE MONTH OF DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Monday,

WEATHER 13<sup>th</sup> Dec.

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

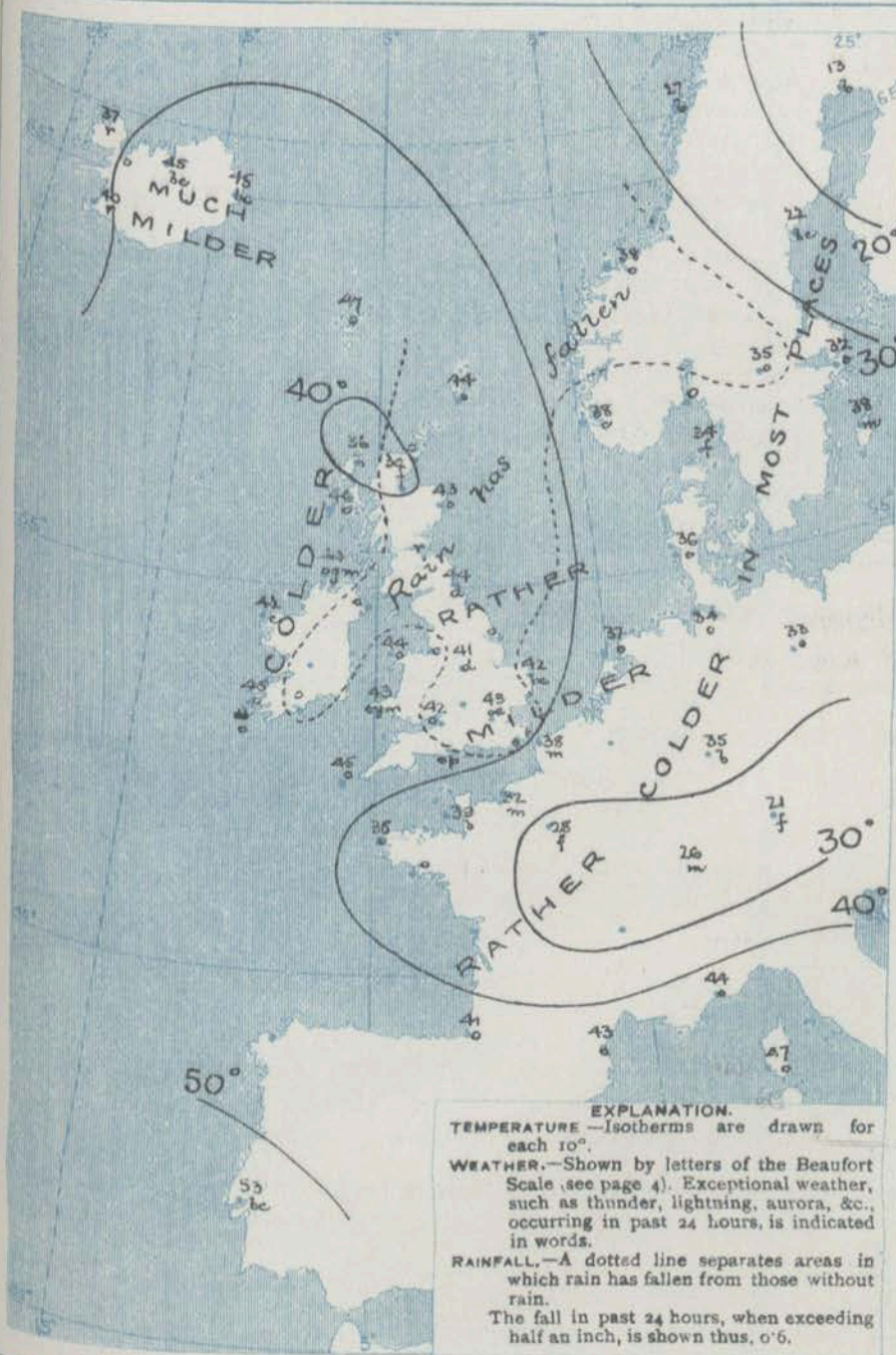
The anticyclone over Scandinavia is increasing in intensity, and is expanding in a westerly and southerly direction. Over the Gulf of Bothnia the readings of the barometer are now above 30.7ms. The depression which was approaching Iceland yesterday is apparently travelling away to the northward.

The wind is E. by S. or S. by E. over England, Ireland and the western parts of the Continent, - light or moderate in force generally, but fresh on the east coast of England. In the north of Scotland there is a light S. breeze, and in Ireland a stronger current from the same quarter. Temperature has risen somewhat over England, but fallen in Ireland and Scotland, and also on the Continent. Over these islands the morning readings range from 47° at Wexford, and 46° at Holyhead and Castlebay to 36° at Stromoy, and 30° at Naím. Frost prevails in South Germany and Eastern and Central France, and also over the northern parts of Scandinavia. The weather, although fine in a few isolated places, is cloudy or dull over Western Europe generally. Fog or mist prevails locally, and slight rain is falling at some of our own northern and central stations, as well as in Western Iceland. The sea is slight or smooth generally, but rather rough off the east of England, as well as at Lorient.



# CHARTS 13th December, 1909.

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



### NOTES ON YESTERDAY'S WEATHER.

At some of our south coast stations the thermometer yesterday failed to reach 40°, but in Ireland and the west of Scotland it rose to 50° or slightly above it. At a large majority of our stations there was a complete absence of bright sunshine. Slight rain has fallen in several parts of the country. Wireless reports from the Atlantic show that as far west as the 25th meridian ships experienced yesterday light to moderate winds from between south and west, and cloudy weather, with fog in places.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The Scandinavian anticyclone will probably continue to spread southwards, and a general fall of temperature is likely to take place over these Islands. Cloudy weather will prevail in most districts with mist or fog locally, and slight rain at some of our eastern stations.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

0 { S. and S.E. winds, light; fair, but cloudy; rather colder.

1 { E. and S.E. winds, light; cloudy, mist or fog in places; rather colder.

2 { E. and N.E. winds, light or moderate; cloudy, some mist or fog in places; colder.

3 { E. and N.E. winds, light; cloudy, misty or foggy in places; colder.

4 { Same as Tbo. 1.

5 { E. and N.E. winds, light; cloudy, misty or foggy in places; colder.

6 { Same as Tbo. 1.

7 { Same as Tbos. 7 & 8.

### II WESTERN CHANNEL AND BAY

light to moderate E. and N.E. winds, and cloudy, misty weather; sea slight rough Channel, moderate Bay; colder.

### FORECAST DISTRICTS.

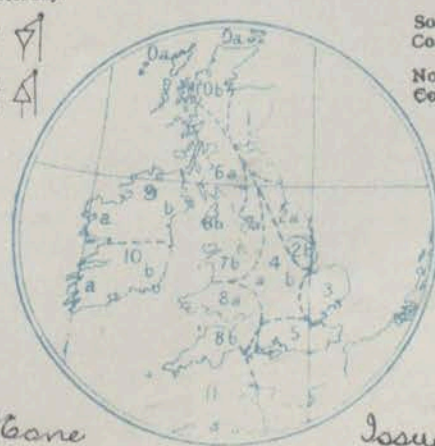
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

Signals hoisted this morning.

South Coast.  
North Coast.

South Coast.  
North Coast.



Issue

Issued.



# DAILY WEATHER REPORT. Monday, 13th December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	52	48		0.0	0.04	Worthing, to 6 p.m. ...	37	33	0	0.0	-
Dublin (City), to 4 p.m. ...	47	46	b. or c. o.	-	0.11	Brighton, to 6 p.m. ...	38	34	"	0.0	-
Rossall Beach, to 6 p.m. ...	51	39	ogm. c.	-	-	Seaford, to 6 p.m. ...			"	0.0	0.01
Blackpool, to 9 p.m. ...	46	36	o. c. o.	0.0	-	Eastbourne, to 6 p.m. ...	43	33	"	0.0	-
Southport, to 9 p.m. ...	48	40	c.	0.0	-	Bexhill-on-Sea, to 9 p.m. ...	43	33	ce	0.0	-
Rhyl, to 6 p.m. ...	43	39	ov o	0.0	0.01	Hastings ...	"	"	"	0.0	-
Colwyn Bay, to 6 p.m. ...	45	40	bc	0.0	-	Folkestone, to 6 p.m. ...	41	32	c. o. o.	0.0	-
Llandudno, to 9 p.m. ...	46	42	o. c.	2.4	-	Ramsgate, to 6 p.m. ...	"	"	"	0.0	-
Bettws-y-Coed, to 6 p.m. ...						Margate, to 6 p.m. ...	43	33	o	0.0	-
Towyn, to 6 p.m. ...						Felixstowe, to 6 p.m. ...			"		
Aberystwyth, to 6 p.m. ...	44	40	"	1.3	0.09	Lowestoft, to 6 p.m. ...	43	37	or, o	0.0	0.02
Plymouth, to 9 p.m. ...						Skegness, to 6 p.m. ...	46	40	y. o	0.0	0.02
Torquay, to 6 p.m. ...	43	40	"	0.0	0.05	Scarborough, to 6 p.m. ...	47	40	"	0.0	-
Weymouth, to 6 p.m. ...	38	36	o	0.0	0.05	Harrogate, to 6 p.m. ...	47	36	o. c. o.	0.0	0.02
Bournemouth, to 6 p.m. ...	37	36	o	0.0	-	Buxton, to 6 p.m. ...	42	35	m. o	0.0	-
Southsea, to 6 p.m. ...	38	34	"	0.0	0.02	Darwen, to 9 p.m. ...			"		
Bognor, to 6 p.m. ...	37	34	o. g	0.0	-	Manchester, to 9 p.m. ...	44	41	o. c. o.	0.0	-
Portsmouth, to 6 p.m. ...	42	41	c. o	0.0	0.05	Birmingham, to 9 p.m. ...	45	36	o. d	-	0.01

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira 12th Dec. 1909	o	o		Ins.	Utrecht 12th Dec. 1909	o	o		Ins.
Marseilles ...	Observations not received				Groningen ...	Observations not received			
Malta ...					Zurich ...				
Algiers ...					Geneva ...				
Tunis ...					Lugano ...				
Palermo ...					Berne 11th Dec. 1909	1.80 p.m.		1.80 p.m.	Measured 7.30 a.m.
Naples ...					Coire ...	30	"	b	
Brindisi ...					Castasegna ...	30	"	s	
Rome ...					Davos ...	19	"	b	
Vienna ...									
St. Petersburg ...									

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
Mineapolis { Dec. 11th 3pm	50 N	15 W	29.62	WNW	6-7	-	o	o	"					Ins.			
" " 6pm	50 N	16 W	29.74	NW	6-7	-											
" " 12th 4am	50 N	20 W	29.96	W	4-5	-											
" " 7am	50 N	21 W	29.92	WSW	4-5	-											
Minneapolis { Dec. 12th 4am	49 N	10 W	29.81	N	1-3	-											
" " 7am	49 N	9 W	29.83	N	1-3	-											
Philadelphia { Dec. 12th 3pm	50 N	10 W	29.85	NNW	1-3	-											
" " 6pm	50 N	12 W	29.82	NNW	1-3	-											
Lusitania { Dec. 12th 4am	50 N	27 W	29.81	SW	4-5	-											
" " 7am	50 N	28 W	29.83	SW	4-5	-											
" " 12th 4pm	51 N	20 W	30.06	S	1-3	-											
" " 6pm	51 N	18 W	30.11	SSW	1-3	-											
" " 12th 4am	51 N	12 W	30.20	E	1-3	-											
" " 7am	51 N	10 W	30.26	E	4-5	-											

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1.—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.51 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m., local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky halfclouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

‡ Received too late for insertion in Charts.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)

SCANDINAVIA.

ICELAND & FAEROE.

BRITISH ISLANDS.

GERMANY, &c.

FRANCE.

SPANISH PENIN.

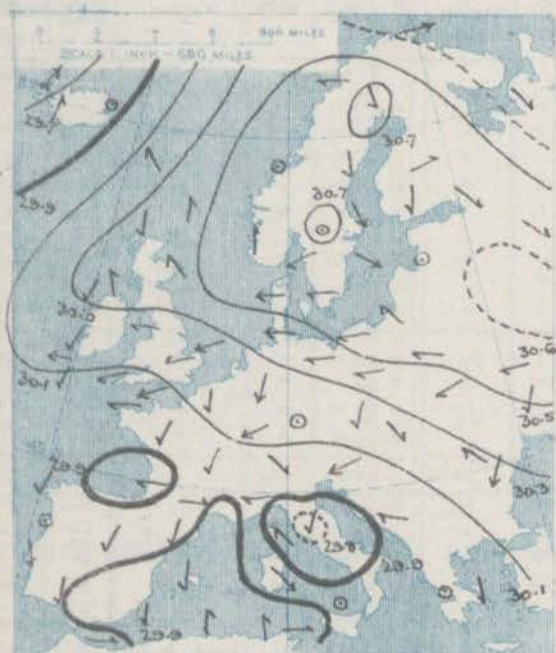


For NOTES see Page 4.

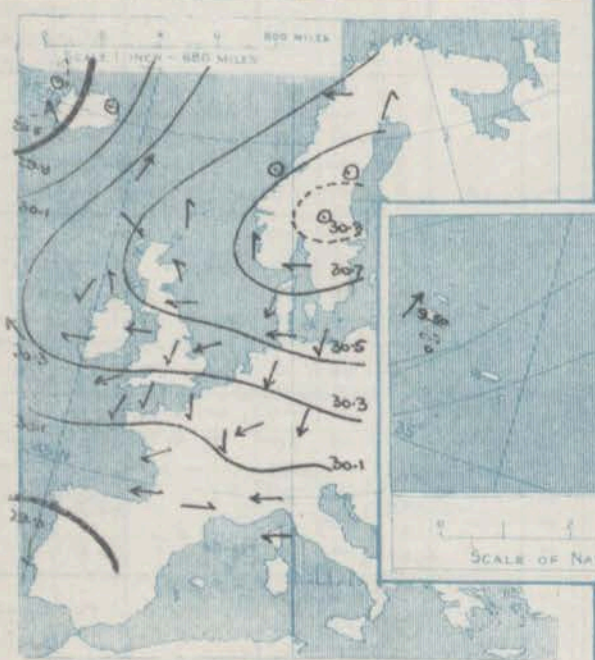


# SUPPLEMENTARY CHARTS OF BAROMETER AND WIND FOR 7 A.M. AND 6 P.M. YESTERDAY

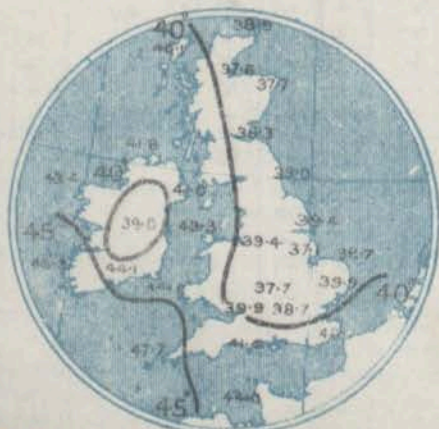
7 A.M. YESTERDAY.



6 P.M. YESTERDAY



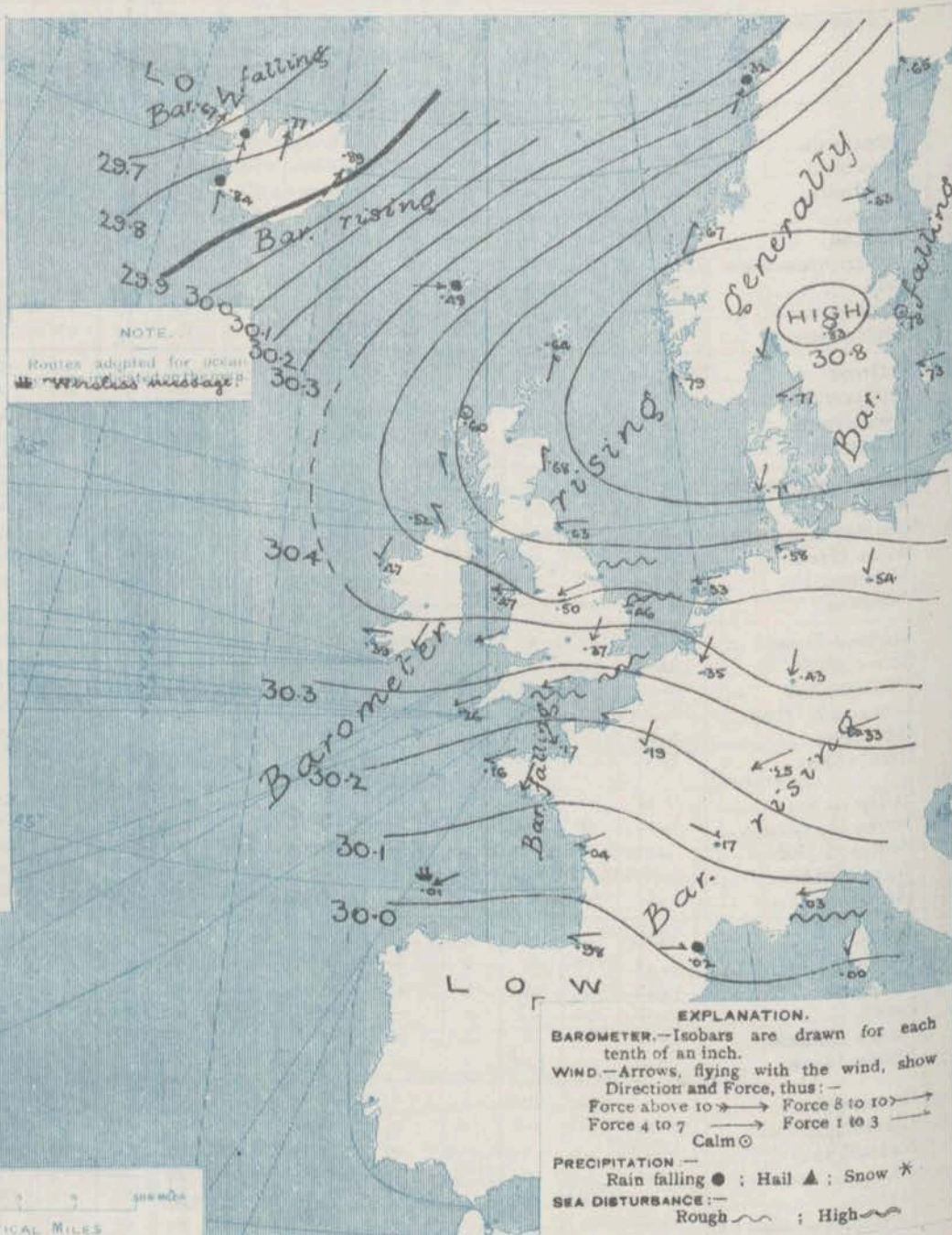
AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE MONTH OF DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Tuesday,

WEATHER 14<sup>th</sup> Dec.

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



## NOTES ON THE GENERAL SITUATION AT 7 A.M.

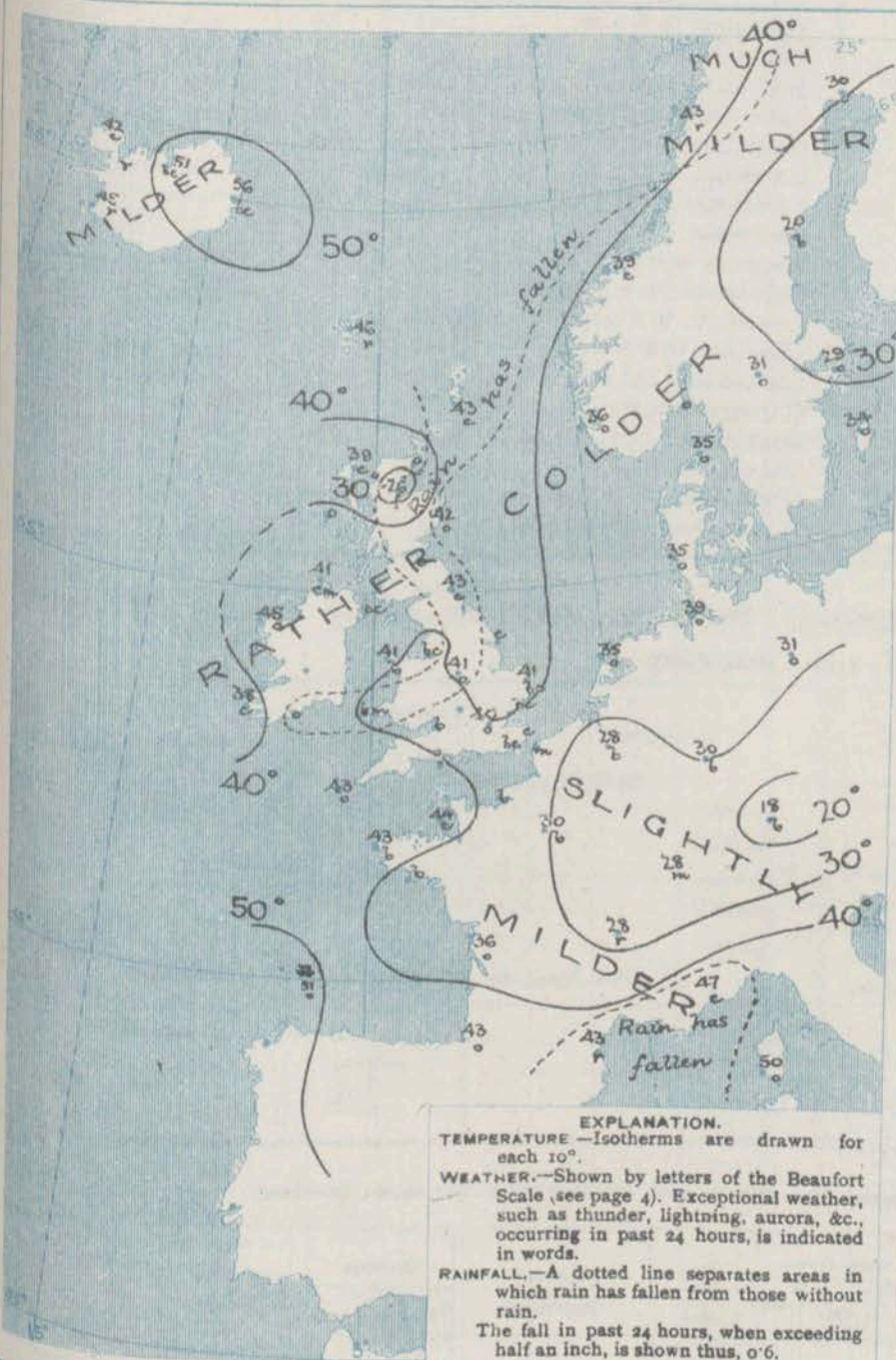
A large anticyclone still covers the greater part of Northwestern Europe, the highest pressures being found over Denmark, the south of Scandinavia and the northern portion of the North Sea. The depression noticed yesterday over Ireland is apparently moving northeastwards, and is occasioning a fall of the barometer over Northern Scandinavia. A slight fall is also in progress over the Channel and the west of France.

E. or S.E. winds prevail over England, Ireland and the western parts of the Continent, and are strong or high in force on our own south and east coasts. Light S.W. breezes are still reported in Scotland, and strong or high S.W. winds between Ireland and the Norwegian coast. Temperature has fallen slightly in most places. Over the United Kingdom generally the morning readings range a little on either side of 40°, but at Helsingfors, where fog prevails, the thermometer stands at 26°. Frost prevails in Sweden, Germany, Belgium and Central France. In the Channel the thermometer ranges between 51° and 56°. The weather is fine at several of the English and Irish stations, as well as in neighbouring parts of the Continent. Elsewhere the sky remains very cloudy, with rain in Denmark, the Faeroe and Western Ireland. The sea is rather rough on the south and east coasts of England, as well as in the Channel, but moderate or slight elsewhere.



# CHARTS 14<sup>th</sup> December, 1909.

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY



## NOTES ON YESTERDAY'S WEATHER.

Over a large portion of Great Britain the thermometer yesterday failed to reach 45°, but on our west and south-west coasts that value was exceeded, and at dawn the maximum reading was as high as 52°. Small amounts of bright sunshine were recorded on many parts of our western and southern coasts, and nearly 6½ hours at least. But over the country generally the day was sunless. Wireless reports show that as far west as the 10th meridian ships experienced yesterday moderate to fresh breezes from between North-East and South-East, and cloudy weather.

## GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

Slight irregularities in pressure which are forming over France and the Channel are likely to occasion a further increase of wind from the North-Eastward on our north and east coasts, with some rain or drizzle in the course of tomorrow. In the western and northern parts of the United Kingdom the weather will remain, for the present, under the influence of the anticyclone, and will be generally fair and dry.

## FORECASTS

For the 24 hours commencing at NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { a } Light breezes, chiefly S.<sup>s</sup>; fair Cold
- 1 { b } S.<sup>s</sup> and S.E.<sup>s</sup> winds, light; fair generally, but misty or foggy in places. Cold.
- 2 { a } E.<sup>s</sup> and N.E.<sup>s</sup> winds, freshening; fair, Cold.
- 3 Same as No. 5.
- 4 { a } Same as No. 2.
- 5 { b } N.E.<sup>s</sup> winds, increasing in force, high on coast; fair today, some rain or sleet to-morrow. Colder.
- 6 { a } Same as No. 1.
- 7 { b } E.<sup>s</sup> winds, moderate; fair. Cold.
- 8 { a } E.<sup>s</sup> and N.E.<sup>s</sup> winds, freshening; fair. Cold.
- 9 { b } Same as No. 1.
- 10 { a } Same as No. 7.

## 11 WESTERN CHANNEL AND BAY

Freshening N.E.<sup>s</sup> winds; sea moderate at first, rather rough later; fair. Cold

## FORECAST DISTRICTS.

Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

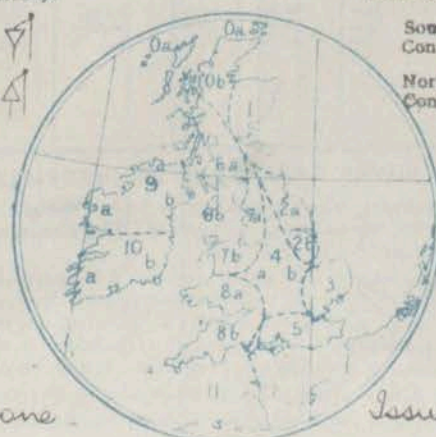
Signals hoisted this morning.

South Cone.

South Cone.

North Cone.

North Cone.



Done

Issued.



# DAILY WEATHER REPORT.

Tuesday, 14th December 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	52	38	b	6.14	-	Worthing, to 6 p.m. ...	43	33	b, c	0.0	0.01
Dublin (City), to 4 p.m. ...	47	43	b, c, o	-	-	Brighton, to 6 p.m. ...	44	34	b	0.6	0.01
Rossall Beach, to 6 p.m. ...	45	39	c	-	-	Seaford, to 6 p.m. ...	43	36	b, c, e	0.9	-
Blackpool, to 9 p.m. ...	46	36	o	0.0	-	Eastbourne, to 6 p.m. ...	44	40	b	0.0	0.02
Southport, to 9 p.m. ...	45	37	b, c	0.0	-	Bexhill-on-Sea, to 9 p.m. ...	43	33	b	0.1	0.03
Rhyl, to 6 p.m. ...	45	39	o	0.0	-	Hastings ...	-	-	b	0.7	-
Colwyn Bay, to 6 p.m. ...	45	40	o	0.0	-	Folkestone, to 6 p.m. ...	43	39	b, c, o	1.0	0.02
Llandudno, to 9 p.m. ...	45	40	b, c, o	0.0	-	Ramsgate, to 6 p.m. ...	-	-	b	0.8	-
Bettws-y-Coed, to 6 p.m. ...	45	40	b, c	0.0	-	Margate, to 6 p.m. ...	44	38	b, c, o	0.4	-
Towyn, to 6 p.m. ...	-	-	-	-	-	Felixstowe, to 6 p.m. ...	43	37	b	0.0	-
Aberystwyth, to 6 p.m. ...	45	40	-	0.7	-	Lowestoft, to 6 p.m. ...	41	38	-	0.0	-
Plymouth, to 9 p.m. ...	45	37	b, c, o	2.6	0.05	Skegness, to 6 p.m. ...	42	40	o	0.0	-
Torquay, to 6 p.m. ...	46	36	b	0.6	0.26	Scarborough, to 9 p.m. ...	45	40	o	0.0	0.11
Weymouth, to 6 p.m. ...	45	35	b, m, o	0.1	0.05	Harrogate, to 6 p.m. ...	42	38	b, o	0.0	-
Bournemouth, to 8 p.m. ...	44	35	b, o	0.1	-	Buxton, to 6 p.m. ...	41	38	b, c, o	0.0	-
Southsea, to 6 p.m. ...	45	36	-	0.0	0.01	Darwen, to 9 p.m. ...	42	38	b, c, o	0.0	-
Bognor, to 6 p.m. ...	44	33	o	0.0	0.01	Manchester, to 9 p.m. ...	45	40	b, c	0.0	-
Paignton, to 6 p.m. ...	46	38	b, c, q	0.0	0.14	Birmingham, to 9 p.m. ...	41	38	b, c, o	0.0	0.02

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	not received	not received	b, bc	-	Utrecht ...	41	32	b, c	-
Marseilles ...	52	34	b, bc	-	Groningen ...	37	36	b, c	-
Malta ...	57	48	c	0.08	Zurich ...	-	-	b, c	-
Algiers ...	61	52	b, c	-	Geneva ...	-	-	b, c	-
Tunis ...	55	34	b, c	-	Lugano ...	-	-	b, c	-
Palermo ...	57	37	b, b	0.08	Berne ...	1.00 p.m.	1.00 p.m.	-	Measured 7.00 a.m.
Naples ...	48	44	b, c	0.83	Coire ...	Observations not received.			
Brindisi ...	63	42	b, b	-	Castasegna ...	-	-	-	-
Rome ...	50	45	b, c	-	Davos ...	-	-	-	-
Vienna ...	43	30	b, bc	-					
St. Petersburg ...	36	27	b, o	-					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Air.	Dry Bulb.	Wet Bulb.	Sea.		Lat.	Long.		Dir.	Force.	
H.M.S. ...	45° 30' N	7° 47' W	30.01	NE	6	o	51	47	50	4							
	46° 7' N	7° 22' W	30.01	ENE	5	o	51	46	50	4							
Tunisia ...	35° N	15° W	29.76	WNW	1-3	-	-	-	-	-							
	35° N	16° W	29.79	WNW	4-5	-	-	-	-	-							
	35° N	19° W	29.81	SW	4-5	-	-	-	-	-							
	34° N	21° W	29.82	SSE	4-5	b	-	-	-	-							
Zealand ...	50° N	9° W	30.13	NE	4-5	-	-	-	-	-							
	50° N	11° W	30.17	NE	4-5	o	-	-	-	-							
	50° N	14° W	30.25	E	4-5	-	-	-	-	-							
	50° N	16° W	30.23	ESE	4-5	o	-	-	-	-							

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1.—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.51 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

‡ Received too late for insertion in Charts.

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METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.  
W. N. SHAW, (Director.)



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

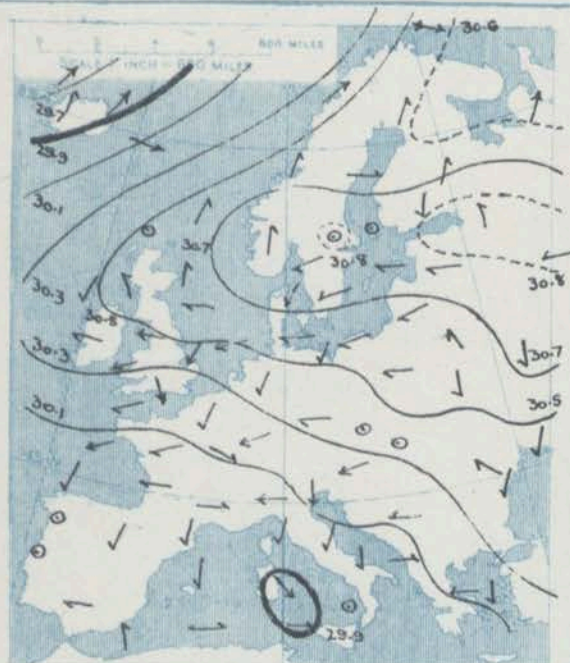
Wednesday  
15th December, 1909.

STATIONS.		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.	Weather.	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9).	TEMP.		Weather.	Sun-shine.	Rainfall.
		At 32° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Force (0 to 12).	At 32° Fahr. and M.S.L. Lat. 45°			Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Dirac.	Force (0 to 12).	Max.			Min.				
		Ins.	"	Dirac.	"	"	Ins.	"	"	"	"	Dirac.	"	"	"	"	"	"	"	"	"
SCANDINAVIA.	Haparanda...	30.02	38	W	2	0	30.06	-19	43	40	+13	NW	4	0	43	27					
	Hernösand...	30.54	36	2	0	0	30.46	-17	41	39	+21	2	0	41	19						
	Stockholm...	30.72	28	WSW	2	0	30.63	-15	30	30	+1	W	4	0	30	27					
	Wisby...	30.74	34	E	2	0	30.68	-07	34	33	0	WNW	4	0	36	28					
	Karlstad...	30.79	29	2	0	0	30.73	-10	28	27	-3	2	0	0	32	30					
ICELAND & FAEROE.	Færder (X'lania Fjord)	30.76	30	W	1	0	30.70	-08	32	32	0	NW	1	0	32	30					
	Bodø...	30.27	44	SW	9	1	30.24	-03	45	44	+2	SW	8	1	45	41					0.43
	Christiansund...	30.70	43	SW	3	0	30.54	-09	42	39	+3	SW	2	0	43	37					
	Skudesnaes...	30.77	27	2	0	0	30.71	-08	37	27	+1	SSW	2	0	37	26					
	Isafjord...	29.87	41	SW	4	0	30.15	+48	38	38	-4	SW	5	0	38	35					
BRITISH ISLANDS.	Reykjavik...	29.97	46	2	0	0	30.26	+42	37	37	-8	2	0	0	37	31					
	Seydisfjord...	30.04	61	SW	2	0	30.21	+32	49	49	-7	SW	5	0	49	41					
	Thorshavn...	30.54	46	W	2	0	30.56	+02	46	46	0	W	2	0	46	41					
	Sumburgh Head	30.68	42	SW	2	0	30.68	+04	41	41	-2	SW	1	0	41	35					
	Stornoway...	30.64	36	2	0	0	30.61	+01	33	33	-6	NW	1	0	33	31					
GERMANY, &c.	Castlebay (Barra Id.)	30.61	44	ENE	2	0	30.60	+02	45	43	0	SW	2	0	45	41					
	Malin Head...	30.56	42	SE	1	0	30.53	+01	41	40	0	SE	4	0	41	40					
	Blackod Pt.	30.47	39	H	3	0	30.43	-04	42	40	-2	NE	4	0	42	40					
	Valencia...	30.54	44	E	2	0	30.55	+01	42	38	+4	E	2	0	42	37					
	Roche's Point...	30.36	43	ENE	3	0	30.27	-02	44	41	0	ENE	4	0	44	41					
FRANCE.	Birr Castle...	30.43	42	E	4	0	30.44	+01	42	37	-1	E	3	0	42	36					
	Donaghadee...	30.59	44	ENE	3	0	30.56	+01	42	42	-2	ENE	3	0	42	42					
	Liverpool Obsy...	30.52	42	NE	4	0	30.51	+01	40	37	+1	ENE	3	0	40	39					
	Holyhead...	30.49	42	ENE	6	0	30.47	+02	41	34	0	ENE	6	0	41	38					
	Pembroke (St. Ann's Hd.)	30.54	41	ENE	5	0	30.56	+02	39	38	+1	ENE	4	0	39	37					
SPANISH PENIN.	Scilly (St. Mary's)...	30.23	44	ENE	5	0	30.23	-03	43	41	0	ENE	4	0	43	41					
	Jersey (St. Aubin's)...	30.20	40	ENE	6	0	30.22	+05	40	38	-4	ENE	6	0	40	38					
	Portland Bill...	30.15	40	ENE	6	0	30.28	+02	40	38	0	ENE	7	0	40	37					
	Dungeness...	30.30	40	NE	7	0	30.27	+00	39	38	0	NE	7	0	39	37					
	Dover...	30.34	40	NE	8	0	30.34	-01	36	35	-1	ENE	5	0	36	35					
GERMANY, &c.	Wick...	30.66	40	S	2	0	30.65	+02	41	40	+3	S	2	0	41	38					
	Nairn...	30.69	26	2	0	0	30.66	+03	28	28	+2	2	0	0	28	22					
	Aberdeen...	30.72	42	S	1	0	30.68	+00	41	40	-1	SE	1	0	41	41					
	Leith...	30.63	42	SE	1	0	30.62	-01	42	39	+1	E	1	0	42	41					0.01
	North Shields...	30.64	43	NE	3	0	30.60	-03	42	39	-1	E	2	0	42	40					
FRANCE.	Spurn Head...	30.52	43	ENE	5	0	30.49	-02	40	39	-2	E	5	0	40	39					
	Yarmouth...	30.47	40	ENE	7	0	30.46	-00	39	37	-2	E	7	0	39	39					
	Clacton-on-Sea...	30.42	40	ENE	8	0	30.39	-01	39	37	-1	ENE	5	0	39	38					
	Nottingham...	30.51	41	E	4	0	30.50	+00	38	37	-3	ENE	3	0	38	37					
	Bath...	30.37	40	E	5	0	30.38	+04	38	35	+1	E	4	0	38	37					
GERMANY, &c.	Oxford...	30.45	38	NE	4	0	30.42	-02	37	35	-1	NE	4	0	37	37					
	London (St. James's Pk)	30.39	40	ENE	5	0	30.37	+00	39	37	-1	ENE	3	0	39	39					
	The Scaw (Skagen)...	30.77	35	2	0	0	30.73	-04	32	31	-3	2	0	0	32	32					
	Fanø...	30.71	32	NE	2	0	30.67	-04	35	34	0	E	4	0	35	32					
	Cuxhaven†...	30.60	27	E	3	0	30.58	+00	33	33	-6	ENE	4	0	33	32					
GERMANY, &c.	The Helder...	30.54	27	E	6	0	30.49	-01	34	32	-1	E	6	0	34	34					
	Brussels...	30.56	23	E	4	0	30.51	-04	31	30	+3	NE	2	0	31	27					
	Berlin†...	30.56	23	E	4	0	30.60	+06	27	29	-4	E	2	0	27	27					
	Frankfurt†...	30.54	20	NE	4	0	30.51	-12	20	25	0	N	4	0	20	20					
	Munich†...	30.52	21	E	3	0	30.50	-03	24	100	+6	E	3	0	24	18					
FRANCE.	C. Gris Nez...	30.39	31	ENE	5	0	30.33	+03	24	22	+2	ENE	5	0	24	30					
	La Hève...	30.32	32	E	2	0	30.32	+04	30	28	-2	E	4	0	30	27					
	Brest...	30.13	41	NE	5	0	30.15	-01	41	39	-2	NE	4	0	41	36					
	Lorient...	30.07	37	NE	5	0	30.07	0	37	36	0	ENE	5	0	37	34					
	Rochefort...	30.00	41	E	3	0	30.00	-04	37	36	+1	NE	4	0	37	34					
FRANCE.	Biarritz...	29.95	46	ENE	4	0	29.94	-04	40	40	-3	E	4	0	40	37					
	Paris...	30.25	31	NE	2	0	30.23	+04	28	27	-2	NE	1	0	28	26					
	Belfort...	30.28	28	ENE	4	0	30.23	-02	27	26	-1	ENE	5	0	27	26					
	Lyons...	30.24	28	NNE	1	0	30.21	+04	27	26	0	E	4	0	27	26					
	Nice...	30.07	49	E	4	0	30.08	+05	47	40	+1	N	1	0	47	43					1.54
SPANISH PENIN.	Perpignan...	30.05	46	N	1	0	30.04	+02	44	44	0	N	1	0	44	45					0.20
	Sanguinaire...	30.01	48	N	2	0	30.08	+08	50	46	0	E	1	0	50	45					
	Corunna...	29.96	36	W	4	0	29.96	-01	31	32	-3	S	6	0	31	27					
	Lisbon...	29.92	36	W	4	0	29.92	-01	31	32	-3	S	6	0	31	27					
	Azores (P. Delgada)...	29.92	36	W	4	0	29.92	-01	31	32	-3	S	6	0	31	27					
SPANISH PENIN.	Horta...	29.96	36	W	4	0	29.96	-01	31	32	-3	S	6	0	31	27					
	Horta...	29.96	36	W	4	0	29.96	-01	31	32	-3	S	6	0	31	27					

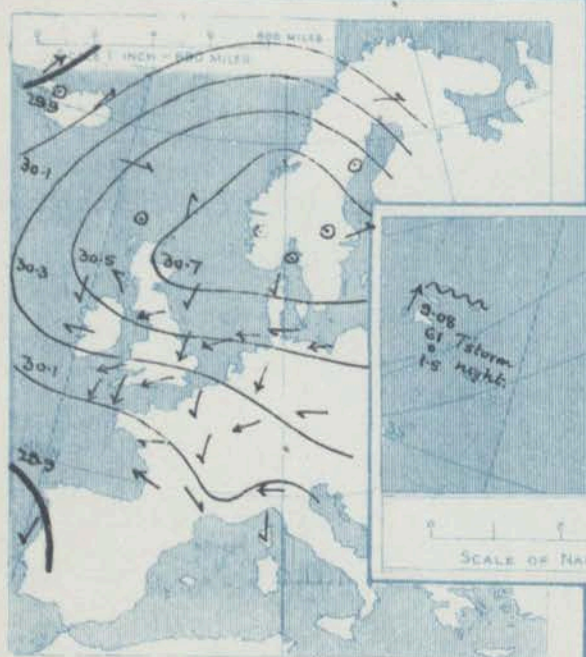


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

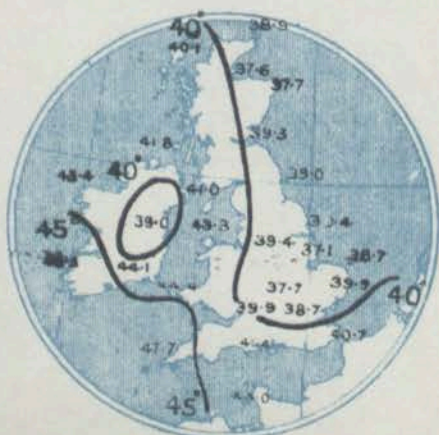
7 A.M. YESTERDAY



6 P.M. YESTERDAY



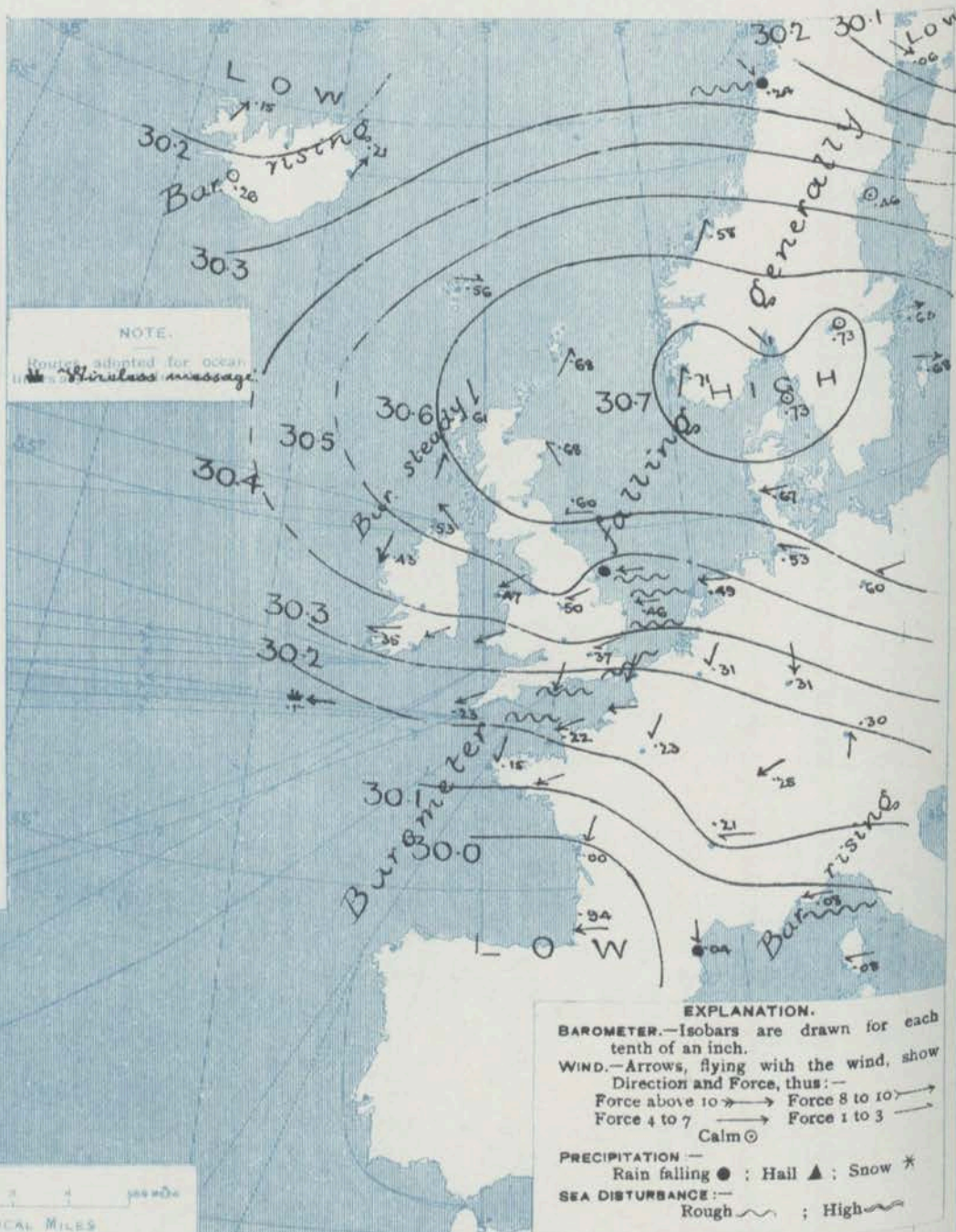
AVERAGES OF TEMPERATURE AT 8. A.M.  
FOR THE MONTH OF DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Wednesday.

WEATHER 15<sup>th</sup> Decr.

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



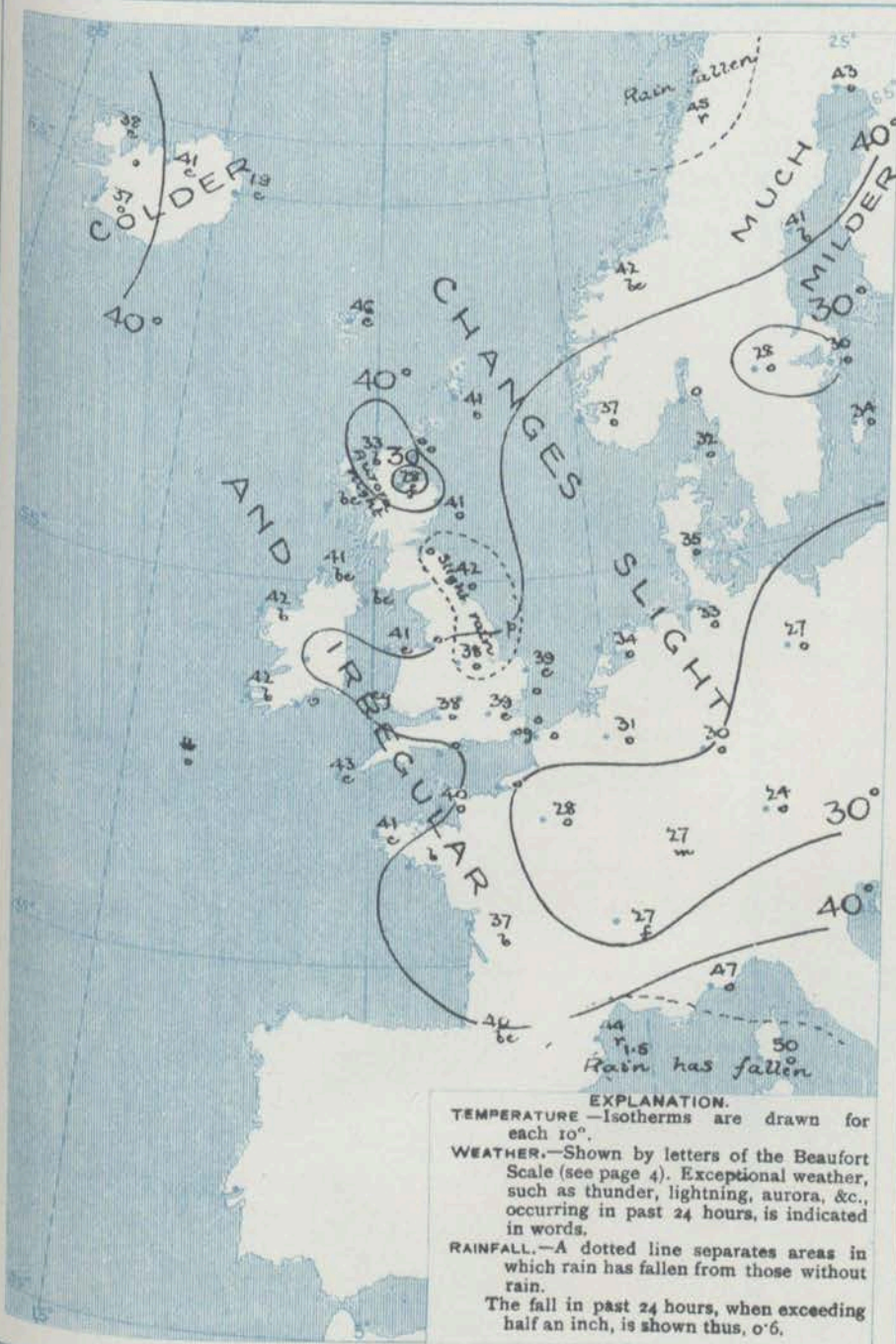
NOTES ON THE GENERAL SITUATION AT 7 A.M.

A large anticyclone still lies over all the more northern part of our islands and the Continent the highest pressures being found over the north of Denmark and the north of Scandinavia. The lowest European pressures, 30.0 in. and less, are reported over the southwest of France, but in a deep depression over the Azores the barometer is below 29.1 in.

E.S. or N.E. winds still prevail over England, Ireland and the western parts of the Continent, and are strong or high in force on our own south and east coasts. In the north of Scotland the wind is light from the S.W., while in Iceland and the west of Norway it is S.W. Temperature has risen briskly over the Gulf of Bothnia, and fallen in Iceland; elsewhere the changes are slight and irregular. Over the greater part of the United Kingdom the morning readings range a little on either side of 40°, but at Balm, where fog prevails, the thermometer is as low as 28°. Frost is reported in Germany, Belgium and Central France. The weather is fine in Ireland and the west of Scotland, but cloudy or dull over Western Europe generally. Slight showers are falling at Spurn Head, and rain at Bodo, as well as at Perpignan and Sanguinaires. The sea is rough or rather rough on our south and east coasts, but moderate or slight elsewhere.



## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



### NOTES ON YESTERDAY'S WEATHER.

Over the greater part of the United Kingdom the thermometer yesterday rose very little above 40°, but in Ireland and the west of Scotland it exceeded 45°; frost occurred in the north of Scotland at night. Little or no bright sunshine was recorded in our northern and eastern districts, but on our west and south coasts the amount was considerable. An aurora was seen last night at Stromness and Oban and a Runderston occurred at Horta (Azores) the accompanying rainfall being as large as 1.5 inch. Wireless reports from the Atlantic show that as far west as the 24th meridian ships experienced yesterday moderate to strong winds from the South-By-East, and cloudy weather.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The anticyclone is beginning to give way, but is likely for the present to dominate the weather in all the more western and northern parts of the United Kingdom. Small irregularities in pressure over England and the neighbouring portion of the Continent will cause a continuance of strong or high winds from East and North-East on our south and east coasts, with slight rain in places.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { a } Light breezes, chiefly S.E.; fair. Cold.
- 1 { b } E. and S.E. winds, light, cold, cloudy, misty or foggy in places.
- 2 { a } E. winds, moderate or fresh; cloudy, slight rain in places.
- 2 { b }
- 3 Same as No. 5.
- 4 { a } Same as No. 2.
- 4 { b }
- 5 { E. or N.E. winds, high on coast; cold, cloudy, slight rain in places.
- 6 { a } S. or S.E. winds, light; fair generally; moderate temperature.
- 6 { b }
- 7 { a } E. and N.E. winds, fresh or strong in places; fair. Cold.
- 7 { b }
- 8 { a }
- 8 { b }
- 9 { a } E. winds, light or moderate; fair. Cold.
- 9 { b }
- 10 { a }
- 10 { b }

### II WESTERN CHANNEL AND BAY.

Fresh N.E. winds, and a moderate to rather rough sea; fair. Cold.

### FORECAST DISTRICTS.

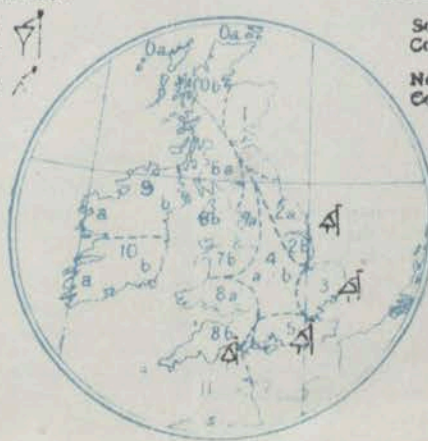
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

Signals hoisted this morning.

South Coast.  
North Coast.

South Coast.  
North Coast.





# DAILY WEATHER REPORT. Wednesday, 15th December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	50	35	bc	5.5	-	Worthing, to 6 p.m. ...	40	36	bc, c	5.3	-
Dublin (City), to 4 p.m. ...						Brighton, to 6 p.m. ...	40	36	"	6.8	-
Rossall Beach, to 6 p.m. ...	43	34	c	"	0.01	Seaford, to 6 p.m. ...	42	35	"	6.1	-
Blackpool, to 9 p.m. ...	43	36	c, o	2.1	-	Eastbourne, to 6 p.m. ...	40	36	"	1.8	-
Southport, to 9 p.m. ...	42	38	"	2.7	-	Bexhill-on-Sea, to 9 p.m. ...	41	36	"	3.5	-
Rhyl, to 6 p.m. ...	44	33	"	1.5	-	Hastings ...	"	"	"	3.2	-
Colwyn Bay, to 6 p.m. ...	45	40	"	0.2	-	Folkestone, to 6 p.m. ...	41	35	b, bc, c	0.7	-
Llandudno, to 9 p.m. ...				0.0	-	Ramsgate, to 6 p.m. ...	"	"	"	0.2	-
Bettws-y-Coed, to 6 p.m. ...					-	Margate, to 6 p.m. ...	39	36	"	0.0	-
Towyn, to 6 p.m. ...					-	Felixstowe, to 6 p.m. ...	43	39	"	0.0	-
Aberystwyth, to 6 p.m. ...	45	40	"	6.5	-	Lowestoft, to 6 p.m. ...	43	38	"	0.0	-
Plymouth, to 9 p.m. ...					-	Skegness, to 6 p.m. ...	42	41	"	0.0	-
Torquay, to 6 p.m. ...	45	37	"	5.6	-	Scarborough, to 9 p.m. ...	44	40	"	0.0	-
Weymouth, to 6 p.m. ...	43	37	m, b, bc	1.6	-	Harrogate, to 6 p.m. ...	41	35	"	0.0	-
Bournemouth, to 6 p.m. ...	43	35	b	5.8	-	Buxton, to 6 p.m. ...	39	36	"	0.0	-
Southsea, to 6 p.m. ...	43	38	"	6.5	-	Darwen, to 9 p.m. ...	40	35	"	0.0	-
Bognor, to 6 p.m. ...	42	37	b	6.5	-	Manchester, to 9 p.m. ...				0.0	-
Portsmouth, to 6 p.m. ...	44	36	b	5.4	-	Birmingham, to 9 p.m. ...	41	38	"	0.0	-

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	nat	received		Ins.	Utrecht ...	39	28	b, o	Ins.
Marseilles ...	54	41	"	-	Groningen ...	36	32	"	-
Malta ...	62	53	"	0.04	Zurich ...	"	"	"	-
Algiers ...	57	50	"	-	Geneva ...	"	"	"	-
Tunis ...	57	34	"	-	Lugano ...	"	"	"	-
Palermo ...	58	41	"	-	Berne ...	27	"	"	-
Naples ...	53	48	"	0.28	Coire ...	27	"	"	-
Brindisi ...	62	42	"	-	Castasegna ...	27	"	"	-
Rome ...	53	44	"	-	Davos ...	30	"	"	-
Vienna ...	37	25	"	-					
St. Petersburg ...	30	21	"	-					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbances.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
H.M.S. { Dec 14th 4pm	47 46N	6 12W	30.07	NE	5	c	50	50	2.50	4	Adriatic { Dec 14th 4am	49 N	25 W	30.07	SSW	6-7	-
- - - 6pm	48 7N	5 55W	30.05	NE	6	c	48	45	48	4	- - - 4am	49 N	24 W	29.97	SSW	6-7	
Minneapolis { Dec 14th 3pm	50 N	24 W	29.88	SSW	4-5	-					- - - 3pm	49 N	20 W	30.17	SSW	4-5	
- - - 6pm	50 N	24 W	29.91	SSW	4-5	o					- - - 6pm	49 N	19 W	30.22	SSW	4-5	
Mauritania { Dec 14th 4am	51 N	19 W	30.12	S	4-5	-					- - - 15th 4am	49 N	15 W	30.20	ENE	4-5	-
- - - 7am	51 N	20 W	30.05	SE	4-5	m					- - - 7am	49 N	13 W	30.17	E	4-5	
- - - 3pm	50 N	27 W	29.85	SSW	6-7	-											
- - - 6pm	50 N	30 W	29.79	WNW	1-3	m											
Philadelphia { Dec 14th 10am	50 N	17 W	29.93	2	0	-											-
- - - 1pm	50 N	18 W	29.93	SE	1-3	m											
- - - 3pm	50 N	23 W	29.83	8	1-3	-											
- - - 6pm	50 N	24 W	29.73	3	4-5	o											
Zeland { Dec 14th 4am	50 N	20 W	30.25	SE	4-5	-											-
- - - 7am	50 N	21 W	30.16	SE	12	c											

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1.—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.51 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.  
 † The figures in the "wet bulb" column represent the relative humidity.  
 ‡ Received too late for insertion in Charts.

**TERMS OF SUBSCRIPTION for the Daily Weather Report**  
 and for transmission of Forecasts by telegraph may be  
 obtained on application.

METEOROLOGICAL OFFICE,  
 68, VICTORIA STREET, S.W.  
**W. N. SHAW, (Director.)**

SCANDINAVIA

ICELAND & FAEROE

BRITISH ISLANDS.

GERMANY, &c

FRANCE.

SPANISH &c



1909.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

Thursday  
16th December 1909.

STATIONS.		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.						
		BAROM.		TEMP.		WIND.	Force (0 to 12).	Weather.	BAROMETER.		TEMPERATURE.			WIND.		Force (0 to 12).	Weather.	Sea (0 to 9).	TEMP.		Weather.	Sun. shins.	Rainfall.
		At 32° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Direc.	Change since Yesterday.				Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.											
SCANDINAVIA.	Haparanda...	29.90	37	W	4	0	29.66	-1.40	36	35	-7	W	2	bc	*	45	36	*	*	*	*	*	*
	Hernösand...	30.30	40	W	4	0	30.14	-1.32	38	35	-3	SW	4	b	*	41	32	*	*	*	*	*	
	Stockholm...	30.52	38	W	6	0	30.36	-1.27	31	30	+1	W	6	0	*	31	28	0	*	*	*	*	
	Wisby...	30.57	30	W	6	0	30.42	-1.26	31	28	-3	WNW	6	0	*	27	27	*	*	*	*	*	
	Karlstad...	30.60	32	SW	2	0	30.45	-1.28	33	31	+5	2	0	0	*	*	*	*	*	*	*	*	
	Färder (X'ania Fjord)	30.59	34	WSW	2	0	30.40	-1.20	36	35	+4	SW	4	0	2	36	32	*	*	*	*	*	
	Bodö...	30.08	43	SW	8	7	29.80	-1.44	37	36	-3	WSW	8	7	6	45	36	0	*	*	*	1.85	
ICELAND & FAEROE.	Christiansund	30.53	43	SSW	1	0	30.30	-1.28	42	40	0	SW	3	0	4	43	41	*	*	*	*	0.04	
	Skudenes	30.62	38	E	2	0	30.42	-1.24	36	35	-1	SE	2	0	2	38	36	0	*	*	*	*	
	Isafjord...	30.23	37	W	6	0	30.51	+1.36	28	*	-10	2	0	b	*	*	*	*	*	*	*	*	
	Reykjavik...	30.32	37	S	1	7	30.37	+1.13	34	*	-3	2	0	0	*	*	*	*	*	*	*	*	
BRITISH ISLANDS.	Seydisfjord...	30.22	47	SW	4	0	30.38	+1.17	38	*	-11	2	0	0	*	*	*	*	*	*	*	*	
	Thorshavn...	30.54	46	W	1	0	30.38	-1.18	44	*	-2	2	0	0	*	*	*	*	*	*	*	*	
	Sumburgh Head	30.61	40	WSW	1	0	30.41	-1.26	39	39	-2	2	0	0	1	42	34	0	*	*	*	*	
	Stornoway...	30.54	34	N	1	0	30.38	-1.23	31	34	+1	2	0	b	0	37	30	bc, bc, bc	3.0	0.02	*	*	
	Castlebay (Barra Id.)	30.53	43	NNW	2	0	30.26	-1.24	41	39	-4	ENE	1	0	1	45	41	bc, o	0.0		*	*	
	Malin Head...	30.50	42	ESE	3	0	30.31	-1.22	41	39	0	E	3	0	2	43	39	bc, bc, bc	*		*	*	
	Blacksod Pt. ...	30.42	42	ENE	4	0	30.28	-1.15	40	37	-2	NNE	4	0	3	42	38	bc, o, bc	*		*	*	
	Valencia...	30.32	40	ENE	2	0	30.17	-1.18	40	37	-2	NE	4	0	3	45	38	bc, o, bc	2.0		*	*	
	Roche's Point...	30.33	40	E	4	0	30.15	-1.22	38	37	-6	NE	2	0	2	44	36	og, og, c	*	0.05	*	*	
	Birr Castle...	30.33	39	2	0	0	30.20	-1.24	38	37	-1	NE	3	0	0	43	36	o, or	0.3	0.01	*	*	
	Donaghadee...	30.48	42	E	5	0	30.34	-1.21	41	41	-1	NNE	5	0	4	45	40	bc, og, c	*		*	*	
	Liverpool Obsy...	30.39	40	NE	3	0	30.25	-1.26	36	35	-4	E	2	0	1	41	35	o, bc, o	0.0		*	*	
	Holyhead...	30.36	41	E	4	bc	30.20	-1.27	37	36	-4	E	2	0	2	42	36	c, bc, bc	*		*	*	
	Pembroke (St. Ann's Hd.)	30.26	39	ENE	3	0	30.13	-1.23	34	33	-5	ENE	4	0	4	41	33	cg, c	0.3		*	*	
	Scilly (St. Mary's)	30.21	43	ENE	5	0	29.99	-1.24	43	40	0	NE	3	0	3	46	41	c, o	0.9		*	*	
	Jersey (St. Aubins)	30.15	36	ESE	4	0	30.06	-1.16	36	35	-4	ESE	3	0	3	40	32	og, o, or, bc	0.0	0.01	*	*	
	Portland Bill...	30.17	38	NE	5	p	30.06	-1.22	36	36	-4	ENE	6	0	5	42	35	o, p, or	0.0	0.10	*	*	
	Dungeness...	30.19	35	E	4	og	30.15	-1.12	36	35	-3	ESE	3	0	4	39	23	co, sq, o, c	0.0	0.10	*	*	
	Dover...	*	*	*	*	*	30.19	-1.15	35	33	-1	ESE	3	0	1	36	32	o, ops, c	0.0	0.05	*	*	
	Wick...	30.53	42	S	2	0	30.39	-1.24	42	40	+1	S	1	0	2	42	39		*		*	*	
	Nairn...	30.59	31	2	0	f	30.40	-1.26	29	29	+1	2	0	f	1	31	28	ow	0.0		*	*	
	Aberdeen...	30.59	40	ESE	1	0	30.39	-1.29	38	36	-3	ESE	1	0	2	41	28	ow, op, c	0.0	0.01	*	*	
	Leith...	30.51	42	SE	2	0	30.33	-1.29	39	38	-3	E	2	0	4	43	39	o, cp	*	0.01	*	*	
North Shields	30.50	42	ENE	3	0	30.31	-1.29	42	39	0	E	2	0	3	43	38	o	0.0		*	*		
Spurn Head...	30.32	42	ESE	6	0	30.23	-1.26	39	36	-1	SE	5	0	5	42	37	cp, c, op	*		*	*		
Yarmouth...	30.22	36	ENE	6	0	30.23	-1.23	37	36	-2	E	4	0	5	40	36	o	0.0		*	*		
Clacton-on-Sea...	30.25	37	ENE	6	0	30.21	-1.18	37	35	-2	ENE	2	0	3	39	36	og	0.0		*	*		
Nottingham...	30.33	40	NE	6	0	30.23	-1.27	36	35	-2	E	2	0	4	41	36	op	0.0		*	*		
Bath...	30.24	38	E	4	0	30.16	-1.22	33	31	-5	E	2	0	4	39	34		0.0	0.02	*	*		
Oxford...	30.24	35	ENE	4	0	30.21	-1.21	33	31	-4	ENE	2	0	5	38	32	o, ods	*	0.01	*	*		
London (St. James's Pk)	30.23	35	ENE	4	0	30.18	-1.19	35	33	-4	ESE	2	0	4	40	34	o, or, s, o	0.0	0.01	*	*		
GERMANY, & C.	The Scaw (Skagen)	30.63	34	SSW	1	0	30.45	-1.28	35	34	+3	SSW	1	0	1	36	32	*	*	*	*	*	
	Fanö...	30.52	30	E	4	0	30.40	-1.27	28	27	-7	ESE	2	0	3	37	28	*	*	*	*	*	
	Cuxhaven†...	30.52	38	ESE	4	0	30.37	-1.21	26	27	-7	SE	3	0	1	34	25	*	*	*	*	*	
	The Helder...	30.39	30	E	4	0	30.29	-1.20	27	27	-7	SE	2	0	1	34	27	*	*	*	*	*	
	Brussels...	*	*	*	*	*	30.24	-1.07	29	28	-2	ESE	1	0	3	32	25	*	*	*	*	*	
	Berlin†...	30.55	26	E	4	0	30.38	-1.22	22	27	-5	E	3	0	3	27	21	*	*	*	*	*	
	Frankfurt†...	30.31	29	N	3	0	30.31	0.00	26	26	-4	NNE	3	0	3	39	25	*	*	*	*	*	
FRANCE.	Munich†...	30.34	25	E	2	0	30.37	+1.07	19	100	-5	E	2	0	3	28	1	*	*	*	*	*	
	C. Gris Nez...	30.24	31	E	4	0	30.17	-1.16	30	29	-4	ENE	2	0	2	39	30	*	*	*	*	*	
	La Hève...	30.16	32	E	3	0	30.12	-1.20	32	30	+2	SE	4	0	2	36	29	*	*	*	*	*	
	Brest...	30.12	36	E	4	0	30.04	-1.11	30	29	-1	ENE	2	0	2	43	28	*	*	*	*	*	
	Lorient...	?	32	ENE	4	m	?	?	34	33	-3	ENE	3	0	4	41	30	*	*	*	*	*	
	Rochefort...	30.02	36	ENE	4	0	30.01	+1.01	39	39	+2	ENE	3	0	4	41	37	bc, o	*	*	*	*	
	Biarritz...	29.96	42	ENE	4	0	29.98	+1.04	44	40	+1	ESE	4	0	2	52	39	*	*	*	*	*	
	Paris...	30.18	32	ENE	2	0	30.16	-1.07	30	28	+2	ENE	1	0	3	32	27	*	*	*	*	*	
SPANISH PENIN.	Belfort...	30.26	26	ENE	6	m	30.30	+1.07	24	24	-3	ENE	5	0	3	30	24	*	*	*	*	*	
	Lyons...	30.20	30	ENE	1	f	30.26	+1.05	27	27	0	NW	1	0	3	30	26	*	*	*	*	*	
	Nice...	30.17	41	NE	5	7	30.19	+1.11	44	39	-3	E	5	0	5	50	39	*	*	*	*	*	
	Perpignan...	29.98	48	2	0	0	30.02	-1.02	46	46	+2	N	1	0	4	49	42	*	*	*	*	3.03	
	Sanguinaire...																	*	*	*	*	*	
Corunna...																	*	*	*	*	*		
Lisbon...																	*	*	*	*	*		
Azores (P. Delgada)...																	*	*	*	*	*		
" Horta...	29.12	56	SW	6	0	28.97	-1.11	58	56	-3	WSW	5	0	6	63	54	*	*	*	*	0.63		

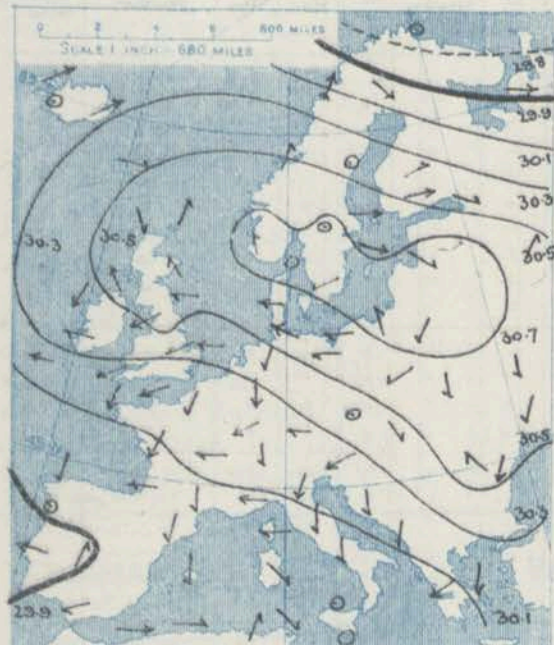


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

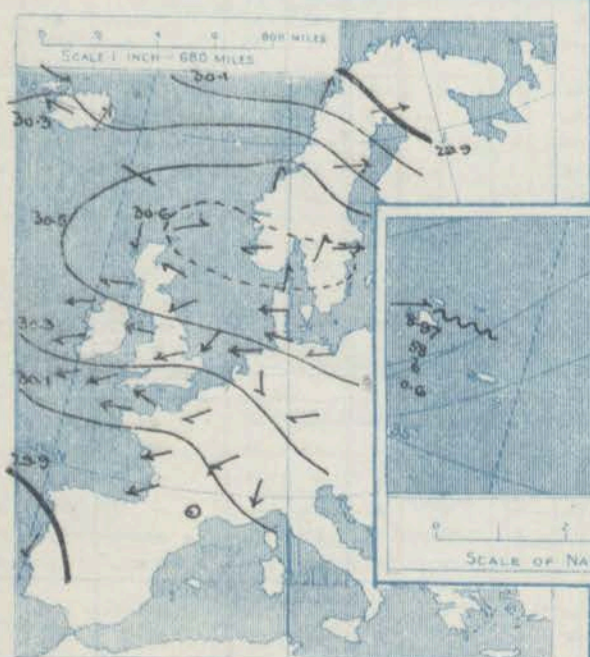
Thursday,

WEATHER 16<sup>th</sup> Decr.

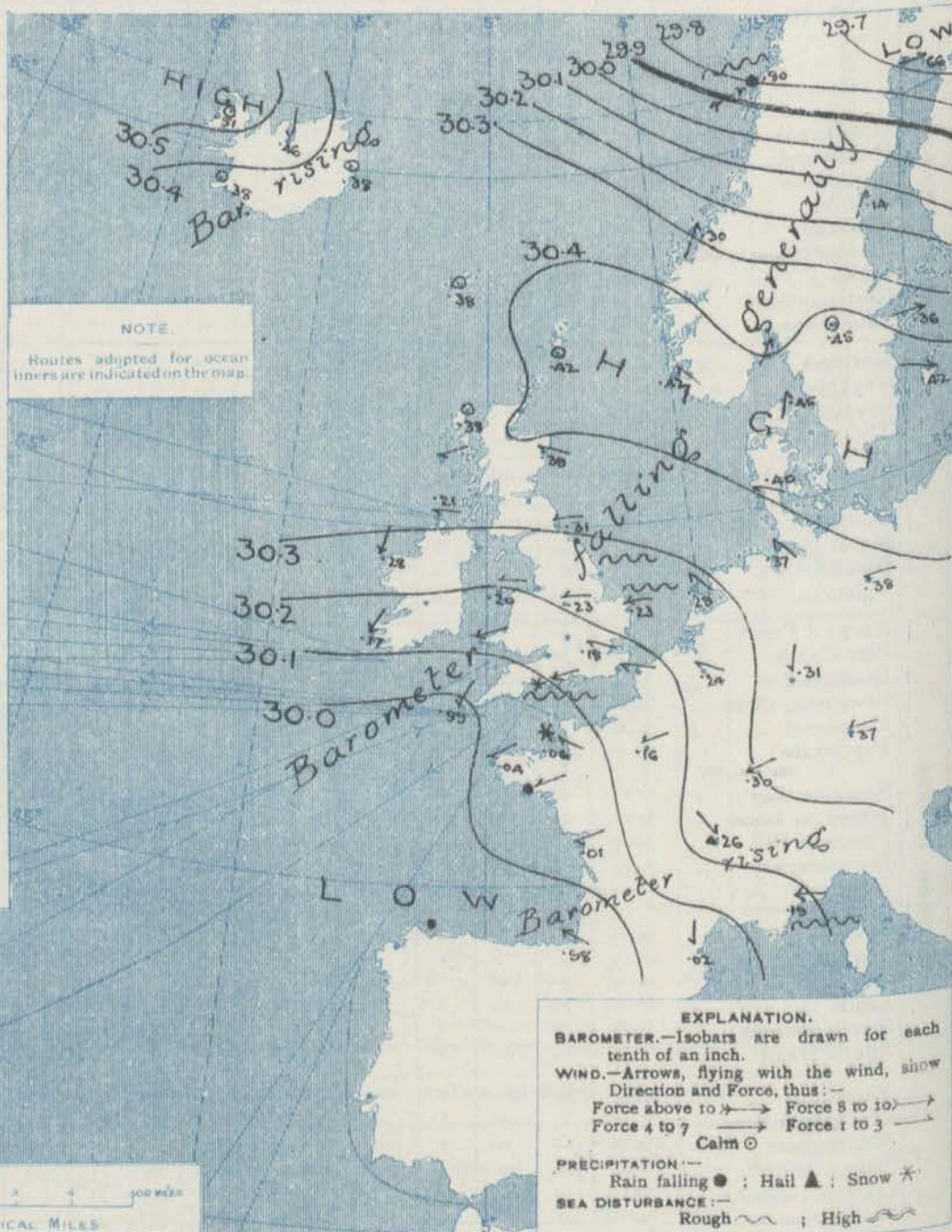
7 A.M. YESTERDAY.



6 P.M. YESTERDAY

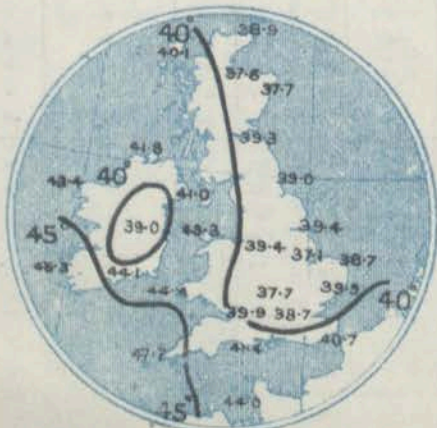


1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE MONTH OF DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



The anticyclone recently noticed over Northwestern Europe is giving way steadily, and the barometer is falling at all but the Icelandic stations, where a decided rise is in progress, and the highest pressures are now found. The low pressure system in the neighbourhood of the Azores is extending northeastwards towards our own islands. Over the southern parts of the North Atlantic the barometric gradient for E. winds is steep.

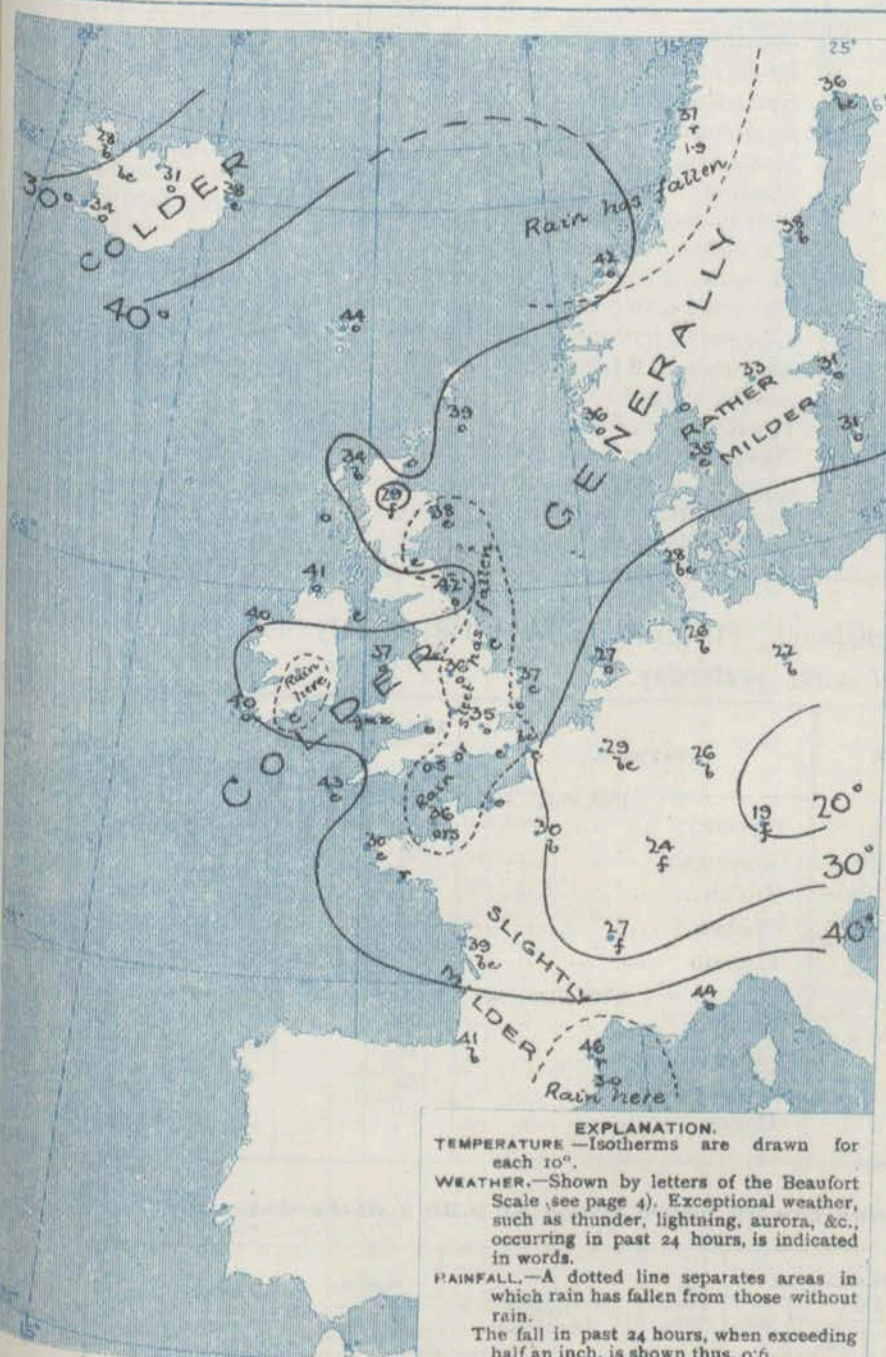
S.E. to S.W. breezes are prevalent over the greater part of the United Kingdom and in all neighbouring portions of the Continent, and blow freshly or strongly on a few of the more exposed parts of the English and Irish coasts. In Scandinavia the wind is W. or S.W., and at Bodø there is a gale from W.S.W. Temperature has risen slightly in France; and in the south of Sweden, but has fallen elsewhere. Over the United Kingdom as a whole the morning readings are below 40°, the lowest values reported being 29° at Tain, and 33° at Bath. Frost prevails in Germany, Belgium and Central France. Cloudy weather prevails in these islands and the adjacent parts of the Continent, and snow or sleet is falling at some of the Channel stations. In France and Germany the weather is mostly fine, but heavy rain is falling at Perpignan. The sea is rather rough off the east of England and at Portland Bill, but moderate or slight elsewhere.



# CHARTS

16<sup>th</sup> December, 1909.

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



### NOTES ON YESTERDAY'S WEATHER

Over a considerable portion of England and in Central Scotland the thermometer yesterday failed to reach 40°; at Starn it did not exceed 31°. Frost occurred at night in many places; at Oxford the thermometer on the grass fell to 27°. Small amounts of bright sunshine were recorded at many of our northwestern stations, and more than 6 hours at Oban, but in most other parts of the country the day was sunless. A little snow or sleet was experienced in the south of England, and slight rain in the south of Ireland and the east of Scotland.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The anticyclone will continue to give way, and the low pressure system which is appearing off our south-west coasts will extend northwards, and cause snow or sleet over the greater part of England and Ireland, with increasing winds from between S.E. and N.E. A further fall of temperature is probable in most districts.

## FORECASTS

For the 24 hours commencing at NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { a } Variable breezes, finally N.E.;  
b } fair. Cold.
- 1 { a } E. winds, freshening; fair to-day.  
2 { b } snow or sleet to-morrow. Colder.
- 3 { a } E. winds, freshening considerably;  
4 { b } cloudy, some snow or sleet. Colder.
- 5 { a } E. winds, light or moderate; cold,  
6 { b } cloudy, snow or sleet to-morrow.
- 7 { a } Same as Nos. 3 to 5.  
8 { b }
- 9 { a } N.E. winds, freshening; cold, cloudy,  
10 { b } some snow or sleet.

### II WESTERN CHANNEL AND BAY.

Freshening E. and N.E. winds, with a rather rough sea; some snow about mouth channel, rain further in. Colder.

### FORECAST DISTRICTS.

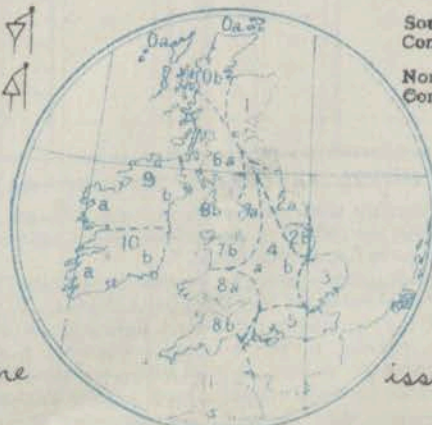
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

Signals hoisted this morning.

South Cone.  
North Cone.

South Cone.  
North Cone.





## DAILY WEATHER REPORT.

Thursday, 16th December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	48	30	br	6.3	-	Worthing, to 6 p.m. ...	38	33	c. obs. s. o	0.0	0.00
Dublin (City), to 4 p.m. ...	45	42	o. c. o	-	-	Brighton, to 6 p.m. ...	38	36	"	0.0	0.00
Rossall Beach, to 6 p.m. ...	42	38	c	-	-	Seaford, to 6 p.m. ...	37	32	o. s	0.0	0.00
Blackpool, to 9 p.m. ...	42	37	c. o	3.9	-	Eastbourne, to 6 p.m. ...	39	33	"	0.0	0.00
Southport, to 9 p.m. ...	42	38	o. c. o	1.5	-	Bexhill-on-Sea, to 9 p.m. ...	39	36	c. sp	0.0	0.17
Rhyl, to 6 p.m. ...	41	37	o. bc. o	0.2	-	Hastings ...	"	"	"	0.0	0.00
Colwyn Bay, to 6 p.m. ...	41	38	o	0.5	-	Folkestone, to 6 p.m. ...	38	32	c. o. s. o	0.0	0.00
Llandudno, to 9 p.m. ...	43	37	o	0.0	-	Ramsgate, to 6 p.m. ...	"	"	"	0.0	0.00
Bettws-y-Coed, to 6 p.m. ...	43	40	c. b	0.0	-	Margate, to 6 p.m. ...	37	36	o. v. o	0.0	0.00
Towyn, to 6 p.m. ...	"	"	"	"	"	Felixstowe, to 6 p.m. ...	41	37	"	0.0	0.00
Aberystwyth, to 6 p.m. ...	43	37	"	2.8	-	Lowestoft, to 6 p.m. ...	41	36	o. c. o	0.0	0.00
Plymouth, to 9 p.m. ...	40	36	o	0.0	-	Skegness, to 6 p.m. ...	42	39	ny. bc. c	0.0	0.00
Torquay, to 6 p.m. ...	41	39	"	0.0	-	Scarborough, to 9 p.m. ...	43	40	o	0.0	0.00
Weymouth, to 6 p.m. ...	39	37	m. o	0.0	-	Harrogate, to 6 p.m. ...	39	36	o. d. o	0.0	0.00
Bournemouth, to 6 p.m. ...	39	35	o	0.0	-	Buxton, to 6 p.m. ...	38	35	o. csp. c	0.5	0.00
Southsea, to 6 p.m. ...	39	35	"	0.0	0.08	Darwen, to 9 p.m. ...	"	"	"	"	"
Bognor, to 6 p.m. ...	39	35	o. vs. s	0.0	0.05	Manchester, to 9 p.m. ...	42	33	o. c. bc. c. o	2.1	0.00
Poignton, to 6 p.m. ...	41	39	cq	0.0	-	Birmingham, to 9 p.m. ...	40	36	o	0.0	0.00

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		Weather.	RAIN.	STATIONS.	TEMPERATURE F.		Weather.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	64	54	o. o	Ins.	Utrecht ...	34	30	b. bc	Ins.
Marseilles ...	55	45	o. o	0.04	Groningen ...	39	32	c. o	-
Malta ...	59	52	bc	0.16	Zurich ...	"	"	o. o	-
Algiers ...	66	48	bc. bc	-	Geneva ...	"	"	o. o	0.04
Tunis ...	61	36	bc. bc	-	Lugano ...	"	"	o. o	Measured 7.30 a.m.
Palermo ...	62	46	b. o	-	Berne ...	30	"	b	-
Naples ...	56	47	b. b	-	Coire ...	27	"	b	0.16
Brindisi ...	56	45	o. b	-	Castasegna ...	39	"	o	-
Rome ...	55	44	b. b	-	Davos ...	27	"	b	-
Vienna ...	32	27	o. f	-					
St. Petersburg ...	37	21	o. o	-					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Dis- turb- ance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Direc.	Force.		Air.		Sea.			Lat.	Long.		Direc.	Force.	
							Dry Bulb.	Wet Bulb.									
	°	°	Ins.				°	°	°			°	°	Ins.			
Adriatic { Dec 15th 3pm - - - 6pm	45 N	10 W	30.18	ENE	4-5	-	-	-	-	-		-	-				
	48 N	9 W	30.18	ENE	4-5	0	-	-	-	-							

## NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.61 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky halfclouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; i. lightning; m. misty (hazy); o. overcast; p. passing showers; q. equally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

‡ Received too late for insertion in Charts.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)

SCANDINAVIA.

ICELAND &amp; FAEROE.

BRITISH ISLANDS.

GERMANY, &amp; C.

FRANCE.

SPANISH PENIN.



1909.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

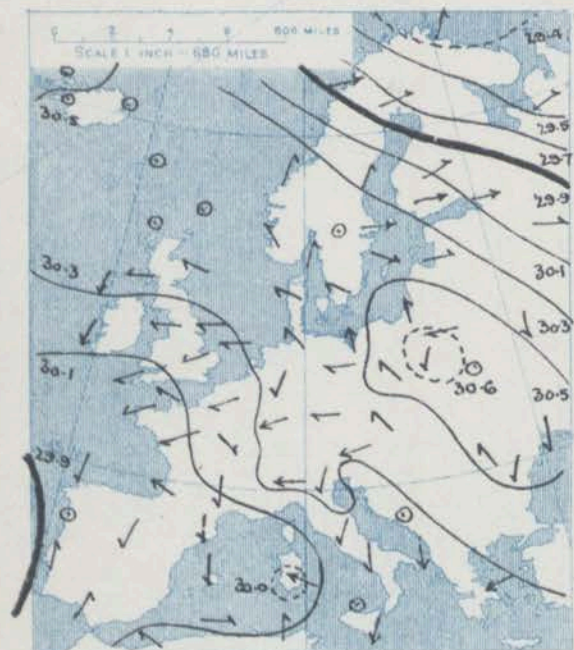
Friday  
17th December 1909.

STATIONS.	YESTERDAY EVENING.						THIS MORNING.										PAST 24 HOURS.				
	Barom.	Temp.	Wind.		Weather.	Sea (0 to 9).	Barometer.	Temperature.			Wind.		Weather.	Sea (0 to 9).	Temp.		Weather.	Sun. shns.	Rainfall.	Mours.	Ins.
	At 82° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Dir.	Force (0 to 12).			At 82° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Dir.	Force (0 to 12).		Max.	Min.					
SCANDINAVIA.	Ins.	"	"	"	"	"	Ins.	"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Haparanda...	29.60	30	NW	4	b	29.53	-1.13	16	15	-2.0	W	2	b	43	21.6	"	"	"	"	"
	Hernösand...	29.87	24	2	0	b	29.71	-1.16	22	29	-6	2	0	0	39	32	"	"	"	"	"
	Stockholm...	30.04	31	WNW	4	0	29.82	-1.22	30	30	-1	W	2	0	31	27	"	"	"	"	"
	Wisby...	30.17	35	W	4	b	29.87	-1.30	35	32	+4	WSW	6	0	39	27	"	"	"	"	"
	Karlstad...	30.15	33	SW	2	c	29.71	-1.44	34	32	+1	SW	2	0	31	25	"	"	"	"	"
	Færder (X'iania Fjord)	30.13	30	N	2	0	29.79	-1.34	26	25	-1	2	0	m	36	25	"	"	"	"	"
	Bodö...	29.76	28	W	6	c	29.70	-1.06	26	24	-11	NW	1	b	27	25	"	"	"	"	"
ICELAND & FAEROE.	Christiansund...	30.02	39	W	5	s	29.79	-1.23	32	31	-10	NE	1	s	41	32	"	"	"	"	0.79
	Skudesnaes...	30.17	36	SE	4	0	29.83	-1.34	39	37	+3	N	2	0	39	36	"	"	"	"	0.20
	Isafjord...	30.85	26	N	3	c	30.36	-1.49	23	"	-5	NE	4	c	"	"	"	"	"	"	"
	Reykjavik...	30.35	31	11	0	0	30.20	-1.15	21	"	-13	2	0	b	"	"	"	"	"	"	"
BRITISH ISLANDS.	Seydisfjord...	30.43	33	NW	3	0	30.23	-1.20	27	"	-16	N	4	c	"	"	"	"	"	"	"
	Thorshavn...	30.14	40	E	5	r	30.06	-1.08	30	"	-14	N	3	c	"	"	"	"	"	"	"
	Sumburgh Head	30.19	39	W	1	0	29.87	-1.32	33	33	-1	NNE	4	r	42	32	C, 0	"	"	"	0.13
	Stornoway...	30.22	26	WNW	2	0	29.91	-1.31	37	36	+3	NW	2	bc	37	30	o, om, bedp	0.0	0.01	"	"
	Castlebay (Barra Id.)	30.19	45	E	2	0	29.93	-1.26	38	38	-2	2	0	0	1	33	o, o, o	0.0	0.10	"	"
	Malin Head...	30.16	40	NW	3	cgm	29.89	-1.27	38	37	-1	ENE	2	c	43	37	og, m, om	"	"	"	"
	Blacksod Pt.	30.15	41	NNE	4	0	29.90	-1.25	39	36	-1	NE	3	c	42	38	bc	"	"	"	"
	Valencia...	30.06	37	NE	2	cm	29.80	-1.26	41	38	+1	NE	5	0	41	36	bc, bc	2.7	"	"	"
	Roche's Point...	30.03	37	NE	3	ogp	29.73	-1.30	40	39	+2	NE	4	0	40	34	c, ogp, o, pg	"	"	"	0.09
	Birr Castle...	30.07	37	NE	3	0	29.78	-1.25	37	36	-1	NNE	3	0	39	35	o	0.0	"	"	"
	Donaghadee...	30.14	41	NW	4	c	29.88	-1.26	41	41	0	NNE	3	bc	44	40	c, o, bc	"	"	"	"
	Liverpool Obsy...	30.09	38	E	3	0	29.78	-1.31	37	36	+1	ENE	4	0	38	35	og	0.0	0.05	"	"
	Holyhead...	30.04	33	ENE	4	om	29.76	-1.28	40	39	+3	ENE	4	0	40	36	c, om	"	"	"	"
	Pembroke (St. Ann's Hd.)	29.99	33	ENE	3	s	29.66	-1.33	36	36	+2	ENE	2	cgmv	37	31	gms, gms	0.2	0.42	"	"
	Scilly (St. Mary's)	29.90	41	ENE	1	om	29.68	-1.22	39	36	-4	NNW	2	0	44	35	r, mv	0.4	0.12	"	"
	Jersey (St. Aubins)	29.95	41	SE	3	0	29.66	-1.29	44	43	+3	2	0	r	45	36	ogm, pg, ogp	0.0	0.09	"	"
	Portland Bill...	29.90	45	ENE	5	ogp	29.64	-1.26	41	41	+5	2	0	r	45	36	r, ogp, r	0.0	2.10	"	"
	Dungeness...	30.04	45	SE	4	0	29.74	-1.30	41	41	+5	E	3	r	43	35	o, c, yg, o, of	0.8	0.68	"	"
	Dover...	"	"	"	"	"	29.77	-1.27	37	37	+2	SE	1	r	41	34	c, bc, or	2.4	0.50	"	"
GERMANY, & C.	Wick...	30.20	41	S	1	0	29.87	-1.32	35	33	-7	W	1	bc	43	33	"	"	"	"	0.06
	Nairn...	30.22	30	W	1	f	29.92	-1.30	29	29	0	2	0	c	32	27	w, mv, c, cm	0.4	0.02	"	"
	Aberdeen...	30.22	26	2	0	0	29.91	-1.28	34	32	-4	WNW	2	0	40	34	cp, ogp, ep	0.0	0.02	"	"
	Leith...	30.16	40	NNE	1	0	29.90	-1.20	38	36	-1	NE	2	0	41	37	op, og, a	"	0.02	"	"
	North Shields...	30.16	42	E	3	0	29.90	-1.20	41	39	-1	ESE	2	0	42	38	o	0.0	"	"	"
	Spurn Head...	30.22	40	ESE	4	c	29.82	-1.40	40	40	+1	ESE	4	r	40	38	o, c, op, of	"	0.10	"	"
	Yarmouth...	30.15	39	ESE	3	c	29.85	-1.30	41	40	+4	ESE	4	op	41	37	c, bc, op	0.0	0.20	"	"
	Clacton-on-Sea...	30.10	41	E	3	c	29.81	-1.40	40	39	+3	ESE	3	0	42	37	og, bc, c, or	1.0	0.45	"	"
	Nottingham...	30.11	35	E	3	0	29.78	-1.33	39	39	+3	E	3	r	41	33	o, rs, c, or	0.0	0.36	"	"
	Bath...	29.96	36	SE	2	0	29.66	-1.30	40	40	+7	SW	1	r	43	32	s	0.0	0.50	"	"
FRANCE.	Oxford...	30.02	38	ENE	2	r	29.72	-1.30	41	40	+8	SE	2	ogm	41	34	s, d, r	"	0.08	"	"
	London (St. James's Pk)	30.05	41	E	2	or	29.74	-1.31	41	40	+6	ENE	3	0	42	35	o, ors, or, o	0.0	0.24	"	"
	The Scaw (Skagen)	30.15	31	WSW	1	f	29.84	-1.31	38	35	+3	W	3	c	38	28	"	"	"	"	"
	Fanö...	30.15	29	SE	2	0	29.96	-1.19	31	30	+3	SW	2	0	32	27	"	"	"	"	"
	Cuxhaven...	30.23	37	S	1	b	29.98	-1.25	27	24	+1	S	1	f	30	23	b, f	"	"	"	"
	The Helder...	30.18	31	ESE	1	bc	29.91	-1.27	31	31	+4	ESE	1	bc	32	27	"	"	"	"	"
	Brussels...	"	"	"	"	"	29.86	-1.38	37	33	+8	SE	2	0	38	27	"	"	"	"	"
	Berlin...	30.24	27	2	0	b	30.00	-1.38	23	23	+1	E	2	b	34	21	"	"	"	"	"
	Frankfurt...	30.19	28	NW	2	f	30.05	-1.14	21	21	-5	SW	3	f	36	19	"	"	"	"	"
	Munich...	30.31	15	2	0	b	30.19	-1.12	8	100	-11	SE	2	f	19	5	"	"	"	"	"
SPANISH PENIN.	C. Gris Nez...	30.06	38	SE	2	m	29.80	-1.26	36	36	+8	SSE	4	r	42	30	"	"	"	"	0.24
	La Hève...	30.07	39	ENE	4	r	29.80	-1.27	37	37	+7	E	2	0	1	29	32	"	"	"	0.12
	Brest...	29.96	36	ESE	2	m	29.68	-1.28	38	36	+8	ENE	2	c	38	30	"	"	"	"	"
	Lorient...	"	44	E	4	r	"	"	46	46	+12	SSE	3	r	2	46	34	"	"	"	0.28
	Rochefort...	29.96	46	SSE	2	b	29.88	-1.08	46	46	+7	SSE	4	r	50	34	b	"	"	"	0.04
	Biarritz...	29.94	54	SE	2	bc	29.74	-1.20	57	52	+16	S	4	0	57	41	"	"	"	"	"
	Paris...	30.08	37	ESE	2	b	29.82	-1.26	40	37	+10	SE	2	0	45	30	"	"	"	"	"
	Belfort...	30.25	26	ENE	4	m	30.13	-1.12	19	18	-5	ENE	4	c	34	18	"	"	"	"	"
	Lyons...	30.24	27	E	1	f	30.02	-1.22	28	27	+1	S	1	bc	32	23	"	"	"	"	"
	Nice...	30.20	46	2	0	b	30.11	-1.09	42	37	-2	2	0	b	52	39	"	"	"	"	0.59
SPANISH PENIN.	Perpignan...	30.06	51	E	2	r	29.90	-1.16	47	44	+1	2	0	0	53	43	"	"	"	"	"
	Sanguinaire...	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
SPANISH PENIN.	Corunna...	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
	Lisbon...	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
SPANISH PENIN.	Azores (P. Delgada)...	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
	" Horta...	28.95	62	WSW	6	c	29.21	+1.24	61	57	+3	W	5	c	63	58	"	"	"	"	0.71

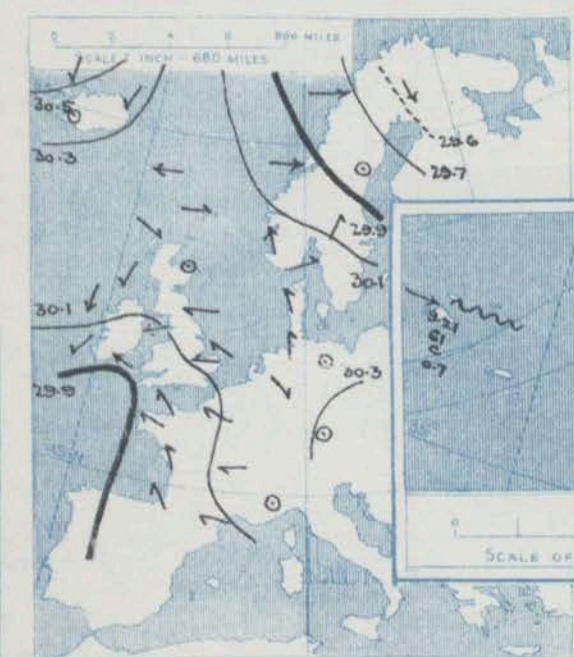


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

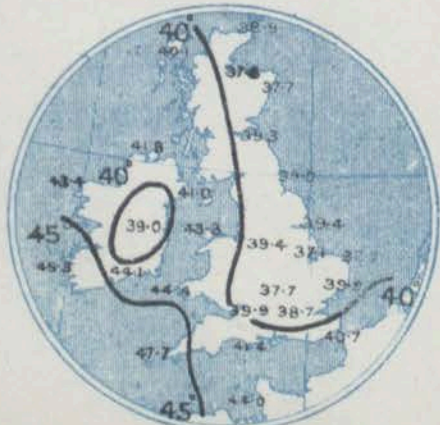
7 A.M. YESTERDAY.



6 P.M. YESTERDAY.



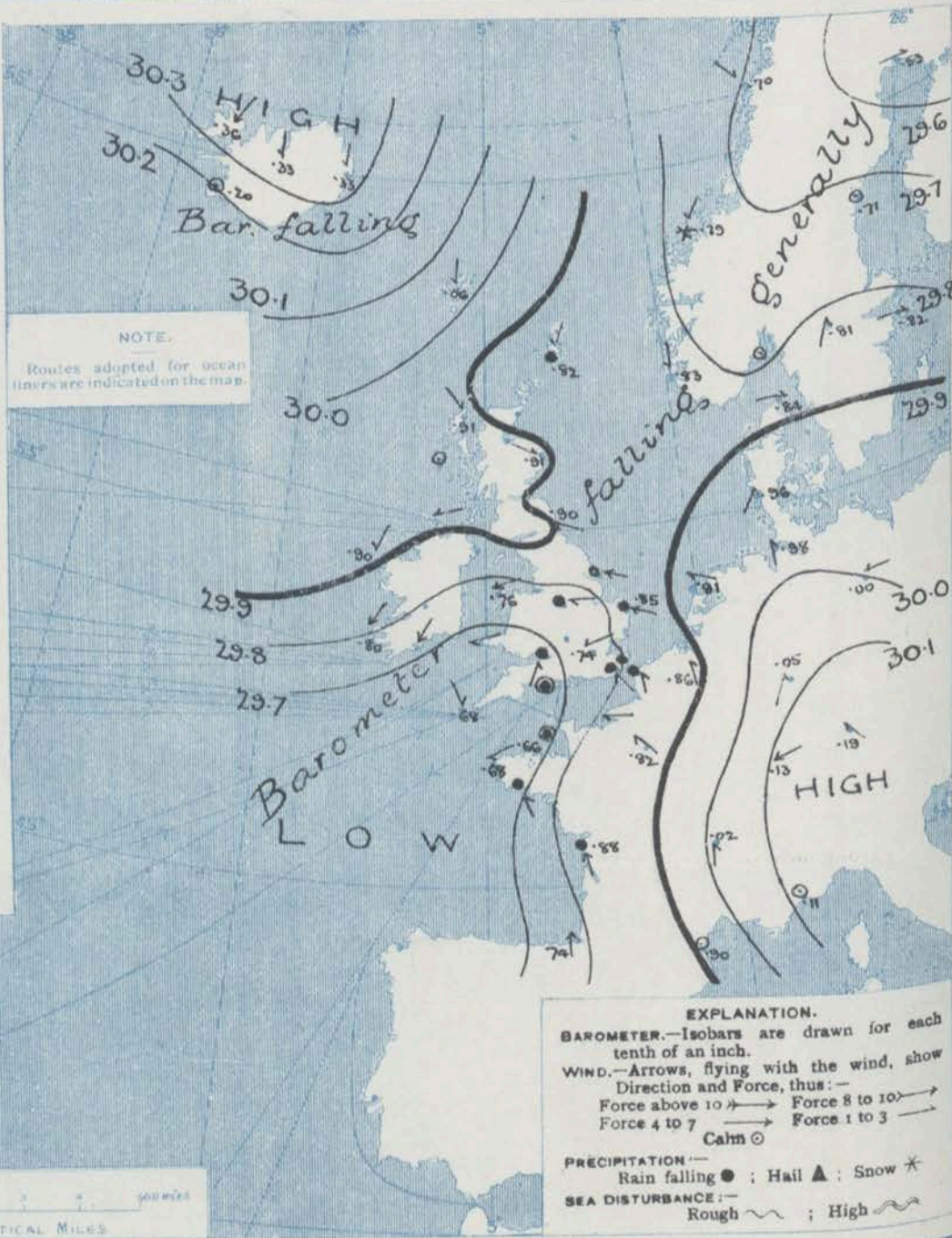
AVERAGES OF TEMPERATURE AT 8. A.M.  
FOR THE MONTH OF DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Friday,

WEATHER 17<sup>th</sup> Decr

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

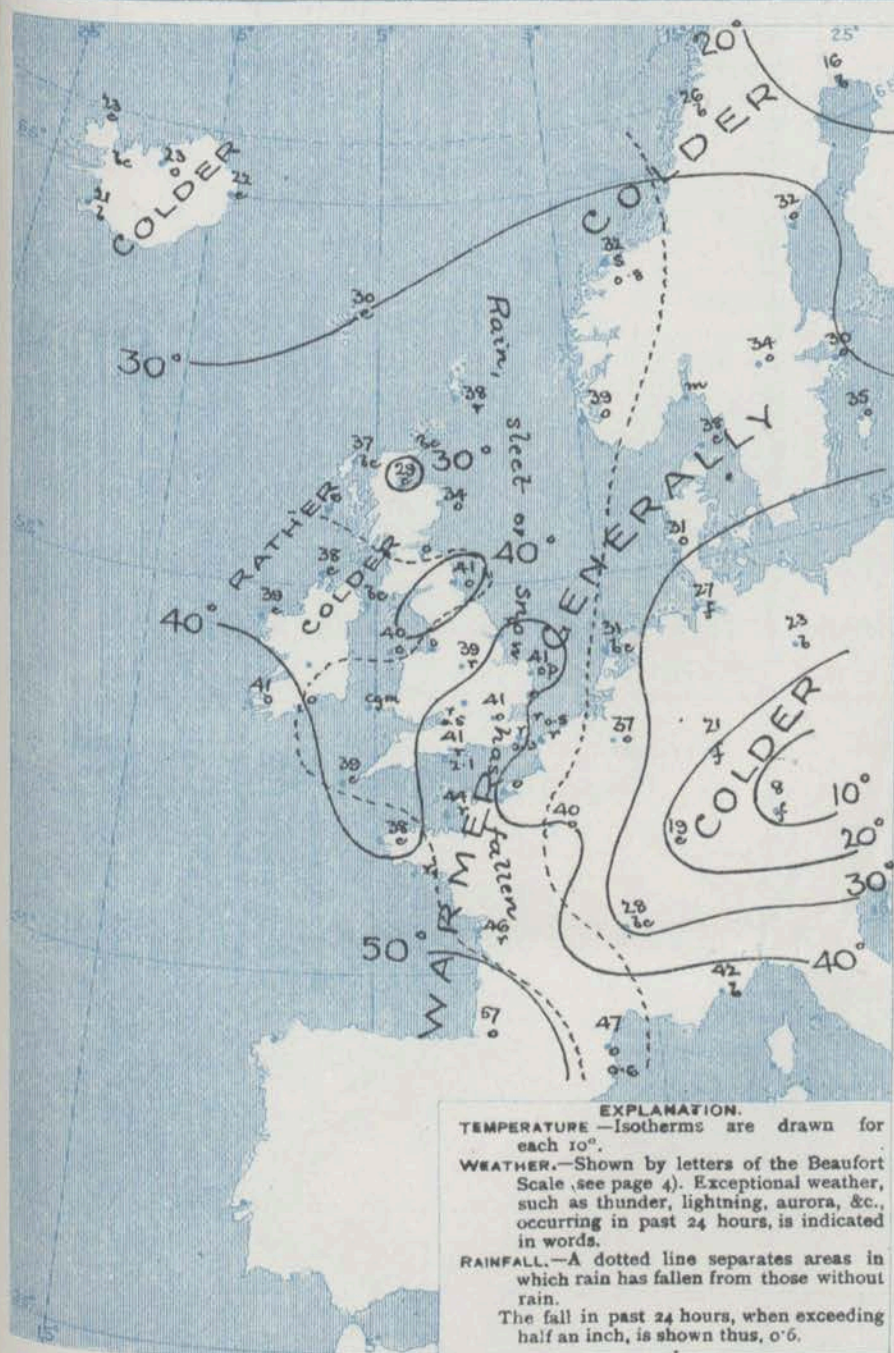
The distribution of pressure over Western Europe is becoming rather irregular. The Atlantic depression continues to spread over these islands, and there are indications of the formation of another low pressure system over the northern part of the North Sea. An anticyclone of considerable intensity still lies over the Icelandic region, and another high pressure area is in existence over South Germany and the southeast of France.

The wind is light to moderate from the S.W. or S.E. in France, from the E. over the greater part of England, and from the N.W. in Ireland and Wales. In Scotland and in regions lying further north, it varies between N.W. and N.E. Temperature has risen rather decidedly over France, the Netherlands and the south-east of England, but has fallen in most other regions. Over the United Kingdom the morning readings range, as a rule, a little on either side of 40°, but in Central Scotland they are below the freezing point. Frost is also reported at many of the Continental stations and in Ireland. The weather is fair in the northern parts of Ireland and Scotland, but cloudy or dull elsewhere. Rain is falling at many English stations, as well as in the north and west of France, and snow is reported at Christiansund. Fog prevails in Germany. The sea is moderate or slight.



For the 24 hours commencing at  
NOON TO-DAY.

### 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { a } N.W. to N.E. winds, light or moderate;  
fair at first, some snow showers later;  
b } cold.
- 1 { a } N. and N.E. winds, light or moderate;  
cold, cloudy, some snow or sleet.
- 2 { a } E. winds, light or moderate;  
b }
- 3 { weather remaining very unsettled,  
some rain or sleet, fog or mist  
locally; temperature about the  
normal.
- 4 { a }  
b }
- 5 { }
- 6 { a } Same as No. 0.  
b }
- 7 { a } E. and N.E. winds, moderate; dull,  
some snow or sleet; rather cold.  
b }
- 8 { a } light variable or N.E. breezes; cloudy,  
some rain; rather cold.  
b }
- 9 { a } N.E. winds, light or moderate; fair  
at first; some snow or sleet later; cold.  
b }
- 10 { a }  
b }

### II WESTERN CHANNEL AND BAY.

light variable breezes and slight sea mouth  
Channel; fresh S. winds and rather rough sea Bay;  
changeable, some rain, fog locally. Moderate temperature.

### NOTES ON YESTERDAY'S WEATHER.

At many of our northern and central stations the thermometer yesterday failed to reach 40°, and at rain it did not rise above the freezing point. Even by far the greater part of the country there was an entire absence of bright sunshine, and in the few places in which any was recorded the amount was small. Rain, sleet or snow has fallen in nearly all parts of Great Britain; at Portland Bill as much as 2.1 ins. have been registered. Wireless reports show that as far west as the 13th meridian ships experienced yesterday moderate easterly breezes, and cloudy weather.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The Atlantic low pressure system will probably continue to extend north-eastwards over the United Kingdom. Unsettled weather is, therefore, likely to prevail very generally, with further falls of rain in all our more southern districts, and some snow or sleet in the north. There are at present no indications of any material increase in the barometric gradient, and the winds will therefore remain generally light or moderate in force.

### FORECAST DISTRICTS.

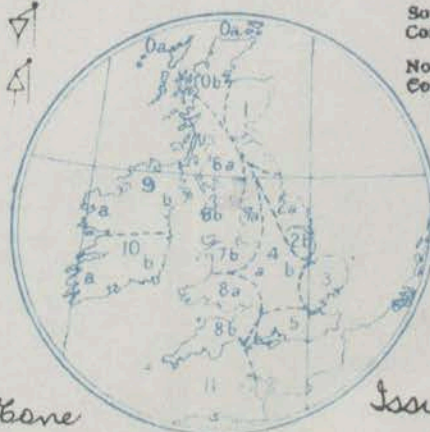
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

Signals hoisted this morning.

South  
Cone.  
North  
Cone.

South  
Cone.  
North  
Cone.



Done

Issued.



# DAILY WEATHER REPORT.

Friday, 17th December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	45	28	-	0.0	-	Werthing, to 6 p.m. ...	43	32	rs. o	0.0	0.12
Dublin (City), to 4 p.m. ...	43	39	opg. og	-	0.01	Brighton, to 6 p.m. ...	42	33	"	0.0	0.09
Rossall Beach, to 6 p.m. ...	40	36	c	-	-	Seaford, to 6 p.m. ...	42	32	o. r.	0.0	0.04
Blackpool, to 9 p.m. ...	40	36	e	0.0	-	Eastbourne, to 6 p.m. ...	42	33	"	0.0	0.10
Southport, to 9 p.m. ...	40	35	oz. c. o	0.0	-	Bexhill-on-Sea, to 9 p.m. ...	42	32	"	0.0	0.10
Rhyl, to 6 p.m. ...	36	34	o. c. o	0.0	-	Hastings ...	"	"	"	1.2	0.01
Colwyn Bay, to 6 p.m. ...	33	34	bc	0.0	-	Folkestone, to 6 p.m. ...	41	33	s. bc. m	2.0	-
Llandudno, to 9 p.m. ...	42	35	o	0.0	-	Ramsgate, to 6 p.m. ...	"	"	"	1.0	-
Bettws-y-Coed, to 6 p.m. ...	41	35	c	0.0	-	Margate, to 6 p.m. ...	42	34	"	0.0	-
Towyn, to 6 p.m. ...	42	34	"	1.5	0.04	Felixstowe, to 6 p.m. ...	41	36	"	0.0	-
Aberystwyth, to 6 p.m. ...	38	33	o. c. o. s.	0.0	0.24	Lowestoft, to 6 p.m. ...	40	36	o. bc. b	0.0	-
Plymouth, to 9 p.m. ...	40	35	"	0.0	0.59	Skegness, to 6 p.m. ...	40	37	"	0.0	-
Torquay, to 6 p.m. ...	45	33	rs	0.0	0.59	Scarborough, to 9 p.m. ...	43	38	"	0.0	-
Weymouth, to 6 p.m. ...	41	32	s. d. o	0.0	0.20	Harrogate, to 6 p.m. ...	38	35	o. c. o	0.0	0.02
Bournemouth, to 6 p.m. ...	40	33	"	0.0	0.20	Buxton, to 6 p.m. ...	35	32	o. c. o	0.0	-
Southsea, to 6 p.m. ...	43	32	rd. r	0.0	0.13	Darwen, to 9 p.m. ...	38	33	c. o	0.0	-
Bognor, to 6 p.m. ...	40	35	o. on. r	0.0	0.82	Manchester, to 9 p.m. ...	38	37	"	0.0	0.01
Paignton, to 6 p.m. ...	40	35	"	0.0	0.82	Birmingham, to 9 p.m. ...	37	32	o. s. o	0.0	-

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	not	received		Ins.	Utrecht ...	30	21	b. c	-
Marseilles ...	54	46	o. o	-	Groningen ...	34	23	b. m	-
Malta ...	61	54	"	-	Zurich ...	"	"	o. o	-
Algiers ...	61	54	bc. r	-	Geneva ...	"	"	o. o	-
Tunis ...	not	received		-	Lugano ...	"	"	o. o	-
Palermo ...	64	46	bc. o	-	Berne ...	28	"	o	-
Naples ...	57	47	b. o	-	Coire ...	32	"	b	-
Brindisi ...	57	45	b. o	-	Castasegna ...	36	"	o	-
Rome ...	57	42	o. b	-	Davos ...	30	"	b	-
Vienna ...	36	23	b. b	-					
St. Petersburg ...	36	25	o. o	-					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
H.M.S. { Dec. 16th, 1 p.m.	51 23 N	9 26 W	30.06	ESE	4	o	42	39	46	4							
" " " 6 p.m.	50 42 N	7 39 W	29.94	ESE	4	bc	41	40	47	4							
Zeland { Dec. 14th, 3 p.m.	50 N	29 W	30.06	SSE	6-7	-	-	-	-	-							
" " " 6 p.m.	50 N	25 W	30.04	SSE	6-7	o	-	-	-	-							
Kronland { Dec. 14th, 9 a.m.	49 N	29 W	29.84	NE	4-5	-	-	-	-	-							
" " " 10 a.m.	49 N	28 W	29.72	E	4-5	r	-	-	-	-							
" " " 3 p.m.	49 N	25 W	30.01	SSE	6-7	-	-	-	-	-							
" " " 6 p.m.	49 N	24 W	30.02	SSE	6-7	o	-	-	-	-							
" " " 10 a.m.	49 N	21 W	30.16	E	4-5	o	-	-	-	-							
" " " 3 p.m.	49 N	20 W	30.04	E	4-5	o	-	-	-	-							
" " " 6 p.m.	49 N	17 W	30.13	E	4-5	o	-	-	-	-							
" " " 10 a.m.	49 N	16 W	30.12	E	4-5	o	-	-	-	-							
" " " 3 p.m.	49 N	13 W	30.12	E	4-5	o	-	-	-	-							
" " " 7 a.m.	49 N	12 W	30.11	E	4-5	o	-	-	-	-							

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 8.51 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. say three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; i. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

‡ Received too late for insertion in Charts.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)

SCANDINAVIA.

ICELAND & FAEROE.

BRITISH ISLANDS.

GERMANY, &c.

FRANCE.

SPANISH PENIN.



For NOTES see Page 4.

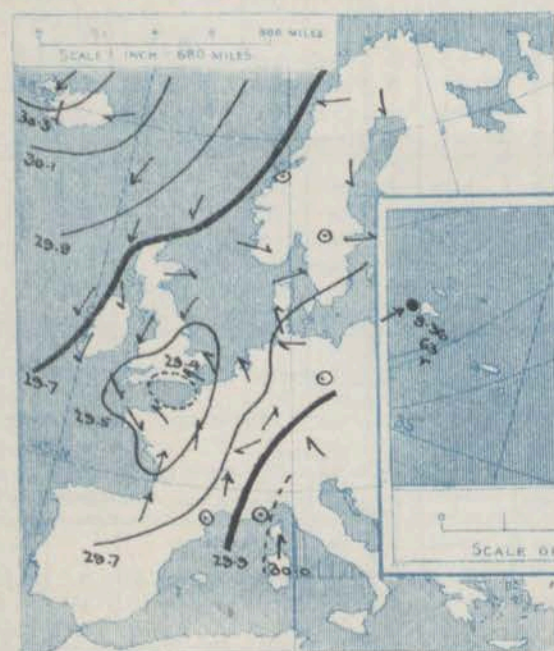


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A M. YESTERDAY

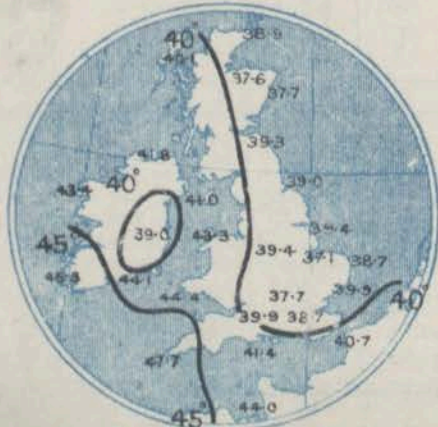


6 P M YESTERDAY



AVERAGES OF TEMPERATURE AT 8. A. M.  
FOR THE MONTH OF DECEMBER.

(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)

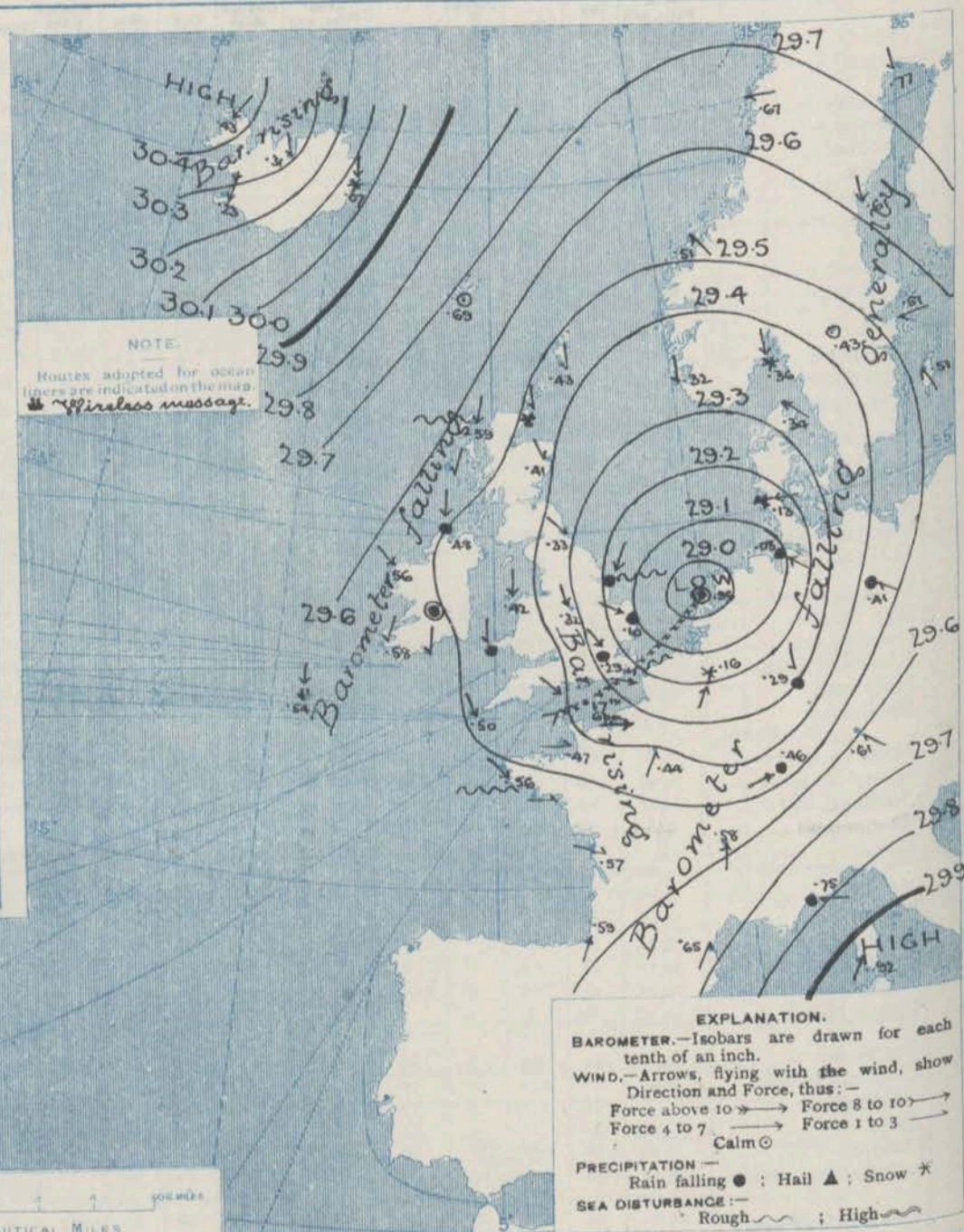


Saturday,

WEATHER 18<sup>th</sup> Dec<sup>r</sup>

18<sup>th</sup> Dec<sup>r</sup>

## 1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

The depression which appeared yesterday over the English Channel has developed considerably both in size and intensity, and has travelled in an east-north-easterly direction across the southeast of England. Its centre now lies near the Helder and the surrounding gradients are rather steep, especially over Germany. The barometer continues to fall in nearly all parts of Northwestern Europe.

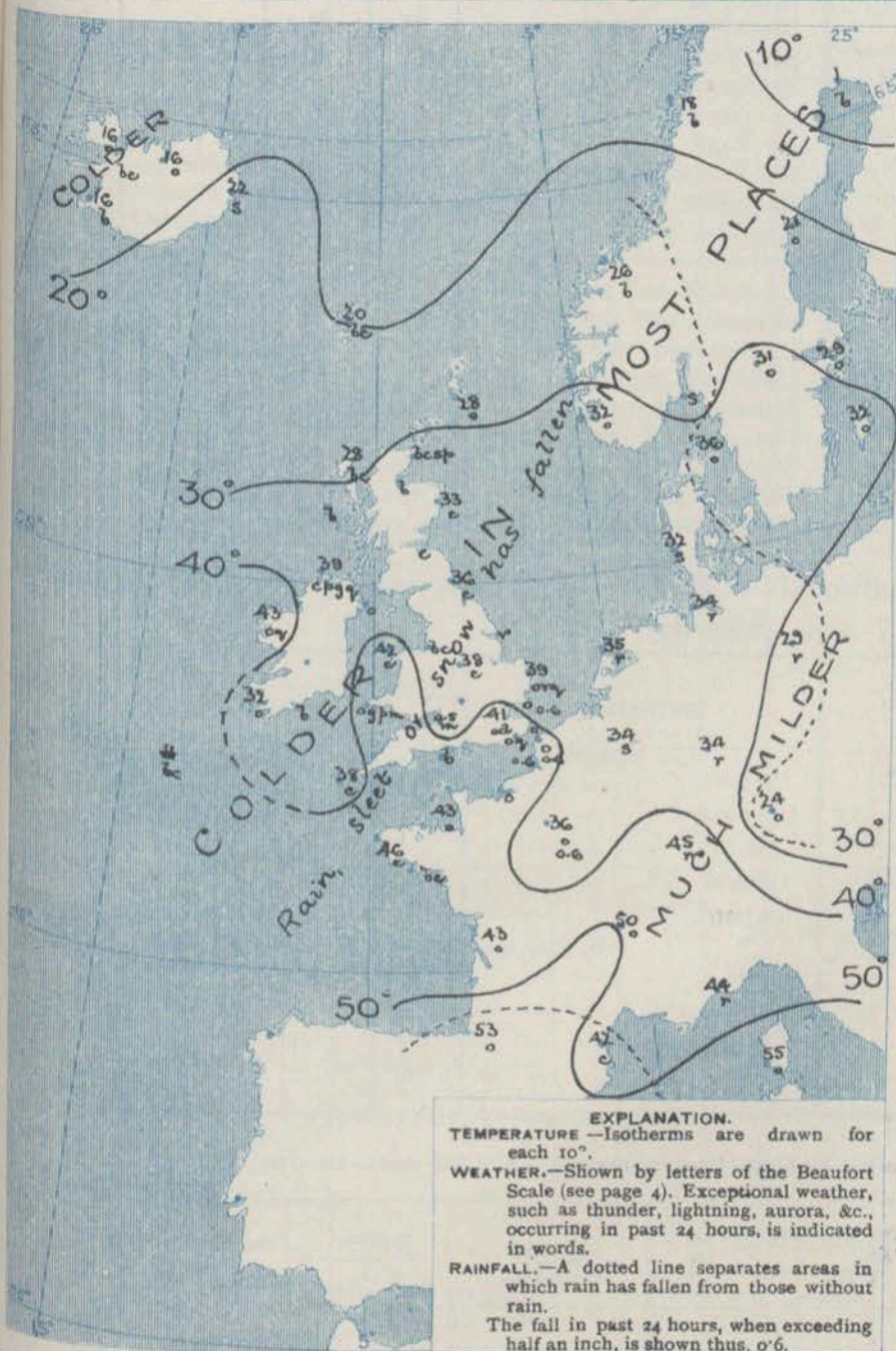
The cyclonic circulation of air round the depression is very complete. N.E. to N.W. winds are general over the United Kingdom and blow strongly in places; in France the wind is chiefly S.W. in Germany S.E. and in Denmark E. A wireless report shows that as far west as the 15<sup>th</sup> meridian ships are experiencing moderate to fresh N.E. winds, and fair weather. Temperature has fallen over Northwestern Europe generally, but has risen very decidedly in Germany and Central France. Over the United Kingdom the morning readings are mostly below 40°, and at several of the Irish and Scotch stations they are below 35°. Slight frost still prevails in Germany, and hard frost in the north of Scandinavia, Ireland and the Faeroe Islands. The weather although temporarily fine at some of our own western and northern stations, is in a very unsettled state generally. Rain is falling on the east coasts of England and Holland, Germany and Eastern France, and snow at Brussels and Paris; showers are reported in Ireland and Wallo. The sea is reported rather rough at Stornoway and Spinn H. as well as on the north coasts of France.



# CHARTS

18<sup>th</sup> December, 1909

## 2 TEMPERATURE AND WEATHER AT 7 A.M. TO DAY



### NOTES ON YESTERDAY'S WEATHER.

At many of our western and northern stations the thermometer yesterday failed to reach 40°, but on our south coast it rose to 45° or slightly above it. Over by far the greater part of the United Kingdom there was an entire absence of bright sunshine. Considerable quantities of rain have fallen in the south and east of England, and snow showers at many of our northern stations.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The depression over Holland will pass away to the eastward, but small secondary disturbances, which are being developed in its rear, will move in a southerly or southeasterly direction across the United Kingdom and cause showers of hail, sleet or snow in nearly all districts. A general fall of temperature is anticipated.

## FORECASTS

For the 24 hours commencing at  
**NOON TO-DAY.**

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { a } To winds, moderate or fresh; cold,  
 b } changeable, some snow showers.
- 1 { a }  
 b }
- 2 { a }  
 b }
- 3 { To W. winds, strong in places;  
 a } changeable, some hail or sleet showers,  
 b } fine intervals. Becoming colder.
- 4 { a }  
 b }
- 5 { a }  
 b }
- 6 { a } Same as Nos. 0 to 2.  
 b }
- 7 { a }  
 b }
- 8 { a } To and To W. winds, strong in places;  
 b } changeable, some hail or sleet showers.
- 9 { a } Colder.  
 b }
- 10 { a }  
 b }

### II WESTERN CHANNEL AND BAY.

Light to fresh To and To W. winds, with a moderate to rather rough sea; changeable, some showers. Rather colder.

### FORECAST DISTRICTS.

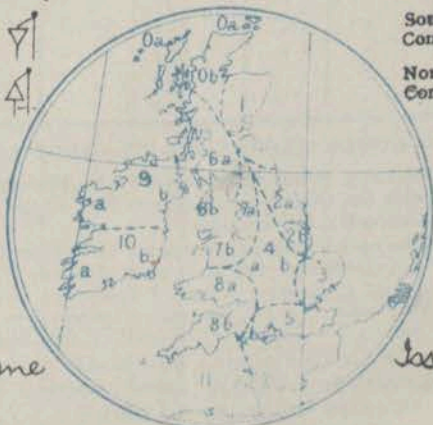
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

Signals hoisted this morning.

South  
 Cone.  
 North  
 Cone.

South  
 Cone.  
 North  
 Cone.



Stone

Issued



## DAILY WEATHER REPORT.

Saturday, 18th December 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather	Sunshine Hrs.	Rainfall Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine Hrs.	Rainfall Ins.
	Max.	Min.					Max.	Min.			
O'ban, to 6 p.m. ...	44	32	b. bc. b	4.3	-	Worthing, to 6 p.m. ...	45	34	r. o. r	0.0	0.44
Dublin (City), to 4 p.m. ...	43	40	spg. odg	*	0.01	Brighton, to 6 p.m. ...	45	35	*	0.0	0.31
Rossall Beach, to 6 p.m. ...	42	36	cr. c	*	0.07	Seaford, to 6 p.m. ...	44	41	r	0.0	0.38
Blackpool, to 9 p.m. ...	41	36	oe. o	0.0	0.06	Eastbourne, to 6 p.m. ...	44	40	*	0.0	0.25
Southport, to 9 p.m. ...	39	37	or. o	0.0	0.01	Bexhill-on-Sea, to 9 p.m. ...	44	37	d. p	0.0	0.26
Rhyl, to 6 p.m. ...	40	35	*	0.0	0.01	Hastings ...	*	*	*	0.0	*
Colwyn Bay, to 6 p.m. ...	40	34	o	0.0	-	Folkestone, to 6 p.m. ...	42	38	r. o. d	0.0	0.49
Llandudno, to 9 p.m. ...	41	37	o	0.0	-	Ramsgate, to 6 p.m. ...	*	*	*	0.0	0.28
Bettws-y-Coed, to 6 p.m. ...	39	36	c	0.0	*	Margate, to 6 p.m. ...	42	35	fm. r	0.0	0.45
Towyn, to 6 p.m. ...	*	*	*	0.0	0.31	Felixstowe, to 6 p.m. ...	42	38	*	0.0	0.78
Aberystwyth, to 6 p.m. ...	42	37	*	0.0	0.07	Lowestoft, to 6 p.m. ...	42	38	bc. m. p. oe	0.0	0.15
Plymouth, to 9 p.m. ...	38	29	bc. f. ofx	2.5	0.53	Skegness, to 6 p.m. ...	41	39	r. o	0.0	0.41
Torquay, to 6 p.m. ...	35	32	*	0.8	0.66	Scarborough, to 9 p.m. ...	41	37	o	0.0	0.06
Weymouth, to 6 p.m. ...	42	37	m. c	0.0	0.35	Harrogate, to 6 p.m. ...	37	33	st. o. r	0.0	0.35
Bournemouth, to 6 p.m. ...	43	32	e. r	0.0	0.25	Buxton, to 6 p.m. ...	36	33	o. atsp. o	0.0	0.08
Southsea, to 6 p.m. ...	46	33	*	0.0	0.26	Darwen, to 9 p.m. ...	37	33	om. o	0.0	0.08
Bognor, to 6 p.m. ...	45	34	od. r. f	0.0	0.40	Manchester, to 9 p.m. ...	41	37	op. o	0.0	0.31
Fairston, to 6 p.m. ...	35	30	c. bz	1.5	0.40	Birmingham, to 9 p.m. ...	40	35	o. r. o	0.0	0.31

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	50	45	b. b	-	Utrecht ...	34	23	bc. c	-
Marseilles ...	52	45	bc	0.55	Groningen ...	30	23	b. m	-
Malta ...	52	54	bc	-	Zurich ...	*	*	f. f	-
Algiers ...	50	36	r. bc	-	Geneva ...	*	*	o. o	-
Tunis ...	50	36	r. bc	-	Lugano ...	*	*	b. b	-
Palermo ...	53	42	b. b	-	Berne ...	25	*	*	-
Naples ...	53	42	b. b	-	Coire ...	39	*	o	-
Brindisi ...	57	38	b. bc	-	Castasegna ...	30	*	b	-
Rome ...	54	36	b. b	-	Davos ...	25	*	b	-
Vienna ...	37	23	b. o	-					
St. Petersburg ...	30	34	o. r	-					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
Maunt Temple Dec. 18th 4 a.m.	50 N	12 W	29.56	N	4-5	-	-	-	-	-							
" " 7 a.m.	50 N	13 W	29.54	N	4-5	bc	-	-	-	-							

## NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1.—

(a) The morning observations are at 7 a.m., Western European time, (French Stations 6.51 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.

(b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hear frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

‡ Received too late for insertion in Charts.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)

SCANDINAVIA.

ICELAND &amp; FAEROE.

BRITISH ISLANDS.

GERMANY, &amp; C.

FRANCE.

SPANISH &amp; PORTUGAL.



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

Sunday  
19th December 1909.

STATIONS.		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.				
		Barom.	Temp.	Wind.	Force (0 to 12).	Weather.	At 32° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Dirac.	Force (0 to 12).	Weather.	Sea (0 to 9).	Temp.		Weather.	Sun. shine.	Rainfall.	
																Max.	Min.				
		Ins.	"	Dirac.			Ins.	Ins.	"	"	"	Dirac.	Force (0 to 12).			"	"		Mours.	Ins.	
SCANDINAVIA.	Haparanda...	29.87	-5	N	2	b	29.62	-.15	2	2	+1	NE	4	0	"	10	-6	"	"	0.51	
	Hernösand...	29.39	27	N	6	5	29.09	-.52	25	24	+4	NE	6	5	"	30	21	"	"	0.35	
	Stockholm...	29.04	32	ESE	6	5	28.68	-.83	34	34	+5	SSW	2	m	"	34	28	"	"	0.32	
	Wisby...	29.01	34	SE	4	0	28.86	-.65	37	34	+5	WSW	8	0	"	37	27	"	"	0.47	
	Karlstad...	29.00	32	E	4	3	28.74	-.69	30	30	-1	E	4	3	"	"	"	"	"	-	
	Færder (X'lania Fjord)	28.99	30	N	6	5	28.82	-.54	28	28	0	NW	2	0	1	30	27	"	"	-	
	Bodö...	29.65	18	E	4	b	29.47	-.20	15	13	-3	E	7	c	2	7	12	"	"	-	
ICELAND & FAEROE.	Christiansund...	29.32	26	Z	0	bc	29.02	-.49	27	26	+1	NE	3	0	3	27	25	"	"	-	
	Skudesnaes...	29.07	32	NNW	6	c	28.93	-.39	32	32	0	NNW	7	c	3	34	30	0-c	"	-	
	Isafjord...	30.40	16	NE	4	bc	30.13	-.30	17	"	+1	NW	5	c	"	"	"	"	"	-	
	Reykjavik...	30.19	17	N	8	b	30.04	-.19	13	"	-3	Z	0	b	"	"	"	"	"	-	
BRITISH ISLANDS.	Seydisfjord...	30.15	19	N	6	5	29.98	-.09	18	"	-4	N	7	bc	"	"	"	"	"	-	
	Thorshavn...	29.56	26	NW	2	c	29.39	-.30	30	"	+10	NNW	5	5	"	"	"	"	"	-	
	Sumburgh Head	29.29	28	NNE	3	b	29.19	-.28	28	28	0	NE	2	c	1	32	21	c. b.	"	0.14	
	Stornoway...	29.52	27	N	5	0	29.40	-.19	30	30	+2	NNW	2	5	3	30	23	bc. sps. bc.	2.4	-	
	Castlebay (Barra Id.)	29.53	30	N	3	osp	29.45	-.14	32	29	-2	NNW	2	bc	2	35	27	b. bc. sps. bc.	2.7	-	
	Malin Head...	29.47	35	NNE	2	cp	29.32	-.16	33	31	-6	NE	3	og	2	40	28	bc. sps.	"	0.20	
	Blacksod Pt.	29.51	39	S	3	m	29.38	-.18	32	32	-11	NNW	7	scv	5	43	31	omp. sps.	"	0.17	
	Valencia...	29.49	38	E	1	0	29.38	-.20	37	33	+5	NNW	6	bc	5	46	31	b. bc. sps. bc.	5.7	0.23	
	Roche's Point...	29.53	35	N	2	b	29.30	-.26	35	34	0	NW	4	b	3	42	33	b. om. bc. sps.	"	0.22	
	Birr Castle...	29.52	34	Z	0	c	29.19	-.32	31	30	-3	Z	0	0	"	39	28	b. c. sps.	3.4	0.16	
	Donaghadee...	29.51	37	N	5	bc	29.30	-.15	35	34	-2	NNE	8	0	6	40	34	bc. bc. sps.	"	0.15	
	Liverpool Obsy...	29.47	35	NW	2	b	29.23	-.16	30	29	-8	E	4	5	3	39	29	bc. om. bc. sps.	0.3	0.20	
	Holyhead...	29.49	39	NE	3	bc. h	29.18	-.24	36	36	+6	S	2	c	1	42	31	r. bc. h.	"	0.25	
	Pembroke (St. Ann's Hd.)	29.49	39	N	2	b	29.15	-.30	43	41	+2	W	5	cgy	5	46	37	ogmp. c. b.	2.8	0.16	
	Scilly (St. Mary's)	29.57	41	NNW	4	c	29.31	-.19	40	37	+2	WSW	4	c	2	44	39	c	3.0	-	
	Jersey (St. Aubins)	29.55	42	W	3	c	29.40	-.07	42	38	-1	SW	2	bc	2	46	35	op. bc. sps. bc.	0.6	0.11	
	Portland Bill	29.47	43	NW	3	bc	29.34	-.08	45	43	+3	S	4	bc	3	45	42	bc	0.8	-	
	Dungeness...	29.45	39	W	3	c	29.38	+1.6	42	41	+1	S	3	0	2	42	32	c. bc. sps.	0.0	0.01	
	Dover...	"	"	"	"	"	29.41	+1.8	40	39	0	S	3	0	2	41	29	or. c. bc. c. o.	0.2	0.02	
	Wick...	29.41	29	N	4	S	29.25	-.21	30	30	-2	N	2	0	3	35	25	"	"	0.25	
	Nairn...	29.45	30	NW	1	bc	29.38	-.12	22	22	-9	NW	1	b	1	32	22	b. bc. sps. b.	2.0	0.02	
	Aberdeen...	29.36	29	NW	3	0	29.33	-.08	26	23	-7	WNW	3	b	2	33	24	c. sps. bc.	6.0	0.16	
	Leith...	29.39	32	WNW	4	b	29.33	-.09	27	26	-9	SW	1	c	"	36	26	c. bc. b.	"	-	
	North Shields	29.39	32	WNW	3	bc	29.36	+0.3	28	28	-8	WSW	2	cc	3	37	24	c. bc.	1.2	-	
	Spurn Head...	29.36	36	WNW	6	bc	29.35	+1.5	30	29	-11	N	1	0	4	41	29	ogmp. bc. sps.	"	-	
	Yarmouth...	29.38	37	WNW	3	bc	29.42	+3.2	27	26	-12	S	1	bc	3	39	26	op. bc. c. bc.	0.0	0.02	
Clacton-on-Sea...	29.43	36	WNW	3	b	29.38	+2.1	29	28	0	S	3	0	3	41	31	c. bc. b. o.	3.2	-		
Nottingham...	29.45	35	NW	2	b	29.30	-.02	28	27	-10	E	3	0	"	40	26	cm. emp. b. bc.	1.1	0.09		
Bath...	29.48	38	Z	0	m	29.26	-.15	38	36	+1	SW	4	b	"	43	29	"	2.2	-		
Oxford...	29.49	36	WNW	2	b	29.29	-.09	33	32	-4	SSE	2	c	"	42	30	tem. o. cm. b.	"	-		
London (St. James's Pk)	29.46	40	WNW	1	g	29.36	+0.7	33	32	-8	WSW	1	cx	"	42	30	c. bc. c.	0.1	-		
GERMANY, & C.	The Scaw (Skagen)	28.82	34	E	5	3	28.89	-.45	34	32	-2	WNW	5	0	2	39	32	"	"	0.20	
	Fanö...	29.05	35	WNW	4	b	29.19	+0.6	36	32	+4	WNW	6	c	"	36	30	"	"	0.16	
	Cuxhaven+	29.16	37	W	6	0	29.24	+2.6	37	30	+3	W	6	bc. sps.	"	39	34	"	"	0.24	
	The Helder...	29.30	41	WNW	5	b	29.44	+1.48	37	33	+2	W	2	"	3	41	35	"	"	0.20	
	Brussels...	"	"	"	"	"	29.50	+1.34	36	36	+2	SW	1	0	"	40	33	"	"	0.04	
	Berlin+	29.21	40	SW	4	r	29.47	+2.6	35	36	+6	SW	4	b	"	41	28	"	"	0.12	
	Frankfurt+	29.52	39	SW	5	0	29.60	+1.31	34	40	0	SW	4	bc	"	41	34	"	"	0.16	
Munich+	29.65	34	SW	4	r	29.70	+0.9	33	100	+9	S	2	0	"	37	25	"	"	0.16		
FRANCE.	C. Gris Nez...	29.47	41	WSW	3	0	29.45	+2.4	37	36	-4	SSE	4	m	3	43	34	"	"	-	
	La Hève...	29.55	41	W	4	0	29.42	+0.3	37	36	-5	SSW	3	bc	3	43	34	"	"	-	
	Brest...	29.59	45	NW	3	c	29.42	-.14	44	41	-2	ESE	3	0	3	48	41	"	"	-	
	Lorient...	"	45	Z	0	0	"	"	42	42	-3	SE	3	r	3	50	41	"	"	0.08	
	Rocheport...	29.56	42	Z	0	b	29.48	-.17	43	43	0	ESE	3	f	"	54	37	"	"	0.12	
	Biarritz...	29.54	55	SE	2	r	29.53	-.06	56	55	-2	S	3	0	2	61	54	"	"	-	
	Paris...	29.58	39	SSW	2	c	29.52	+0.3	34	34	-2	SSE	2	f	"	48	32	"	"	-	
SPANISH PENIN.	Belfort...	29.65	35	WSW	4	0	29.65	+1.9	32	30	-13	ENE	5	0	"	45	26	"	"	0.12	
	Lyons...	29.66	41	NNE	1	f	29.62	+0.4	40	39	-10	SSW	1	0	"	51	39	"	"	0.24	
	Nice...	29.64	50	Z	0	r	29.62	-.13	49	49	+9	Z	0	"	"	50	34	"	"	0.23	
	Perpignan...	29.60	50	NW	1	0	29.56	-.09	49	48	+7	SW	1	0	"	58	26.2	"	"	-	
	Sanguinaire...	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	-	
SPANISH PENIN.	Corunna...	29.47	55	SSW	2	r	29.47	-.03	57	55	+2	SSW	3	0	3	59	54	"	"	0.39	
	Lisbon...	29.70	57	WSW	4	0	29.69	+0.1	61	61	+1	SW	5	0	"	61	55	"	"	0.39	
	Azores (P. Delgada)	29.38	62	SW	5	c	29.26	-.19	58	53	-2	SW	5	0	6	63	54	"	"	0.20	
" Horta	29.24	59	SW	5	0	29.05	-.31	58	54	-5	WSW	7	0	6	66	55	"	"	0.35		

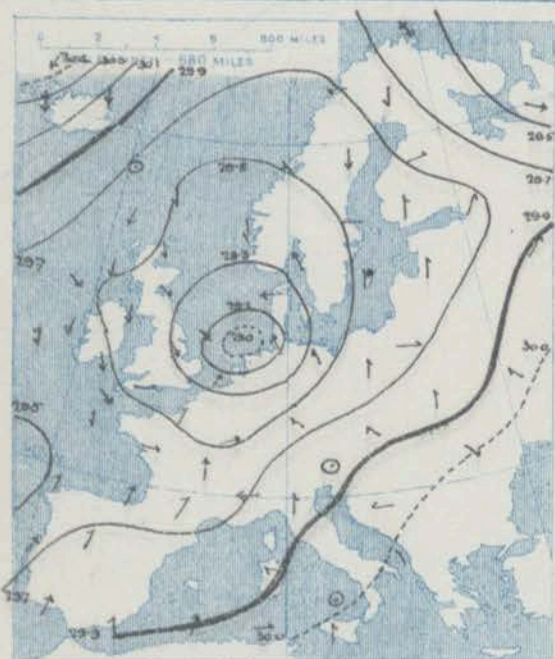


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

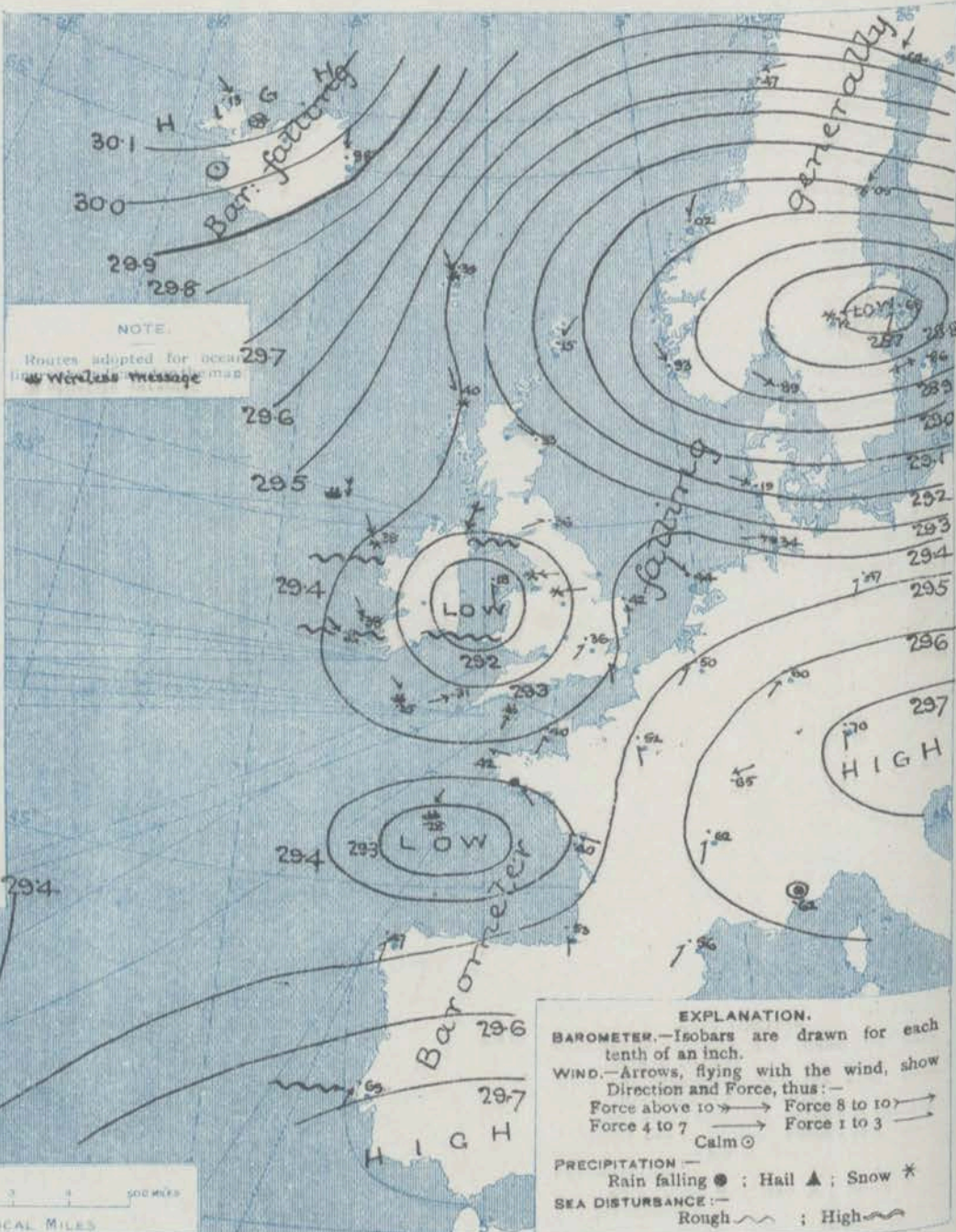
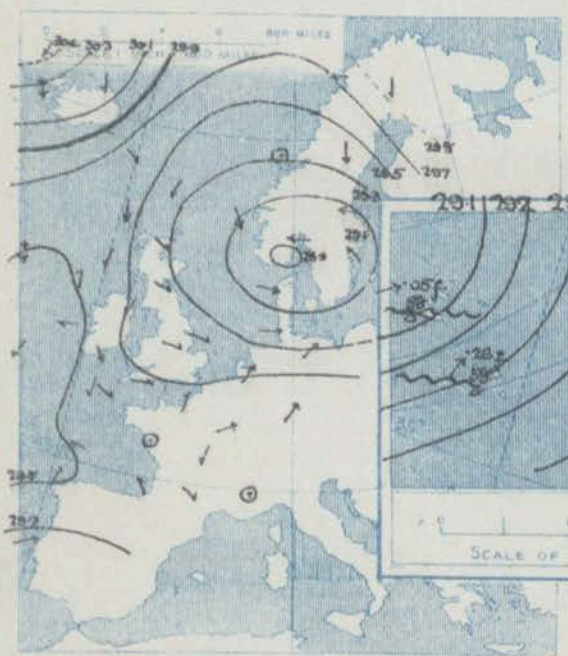
Sunday, **WEATHER** 19<sup>th</sup> Dec<sup>r</sup>.

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.

7 A.M. YESTERDAY.

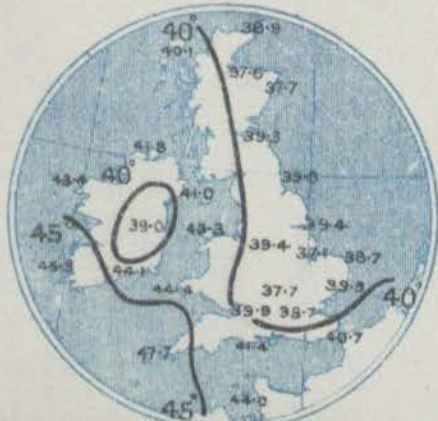


6 P.M. YESTERDAY



NOTES ON THE GENERAL SITUATION AT 7 A.M.

AVERAGES OF TEMPERATURE AT 8. A.M.  
FOR THE MONTH OF DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



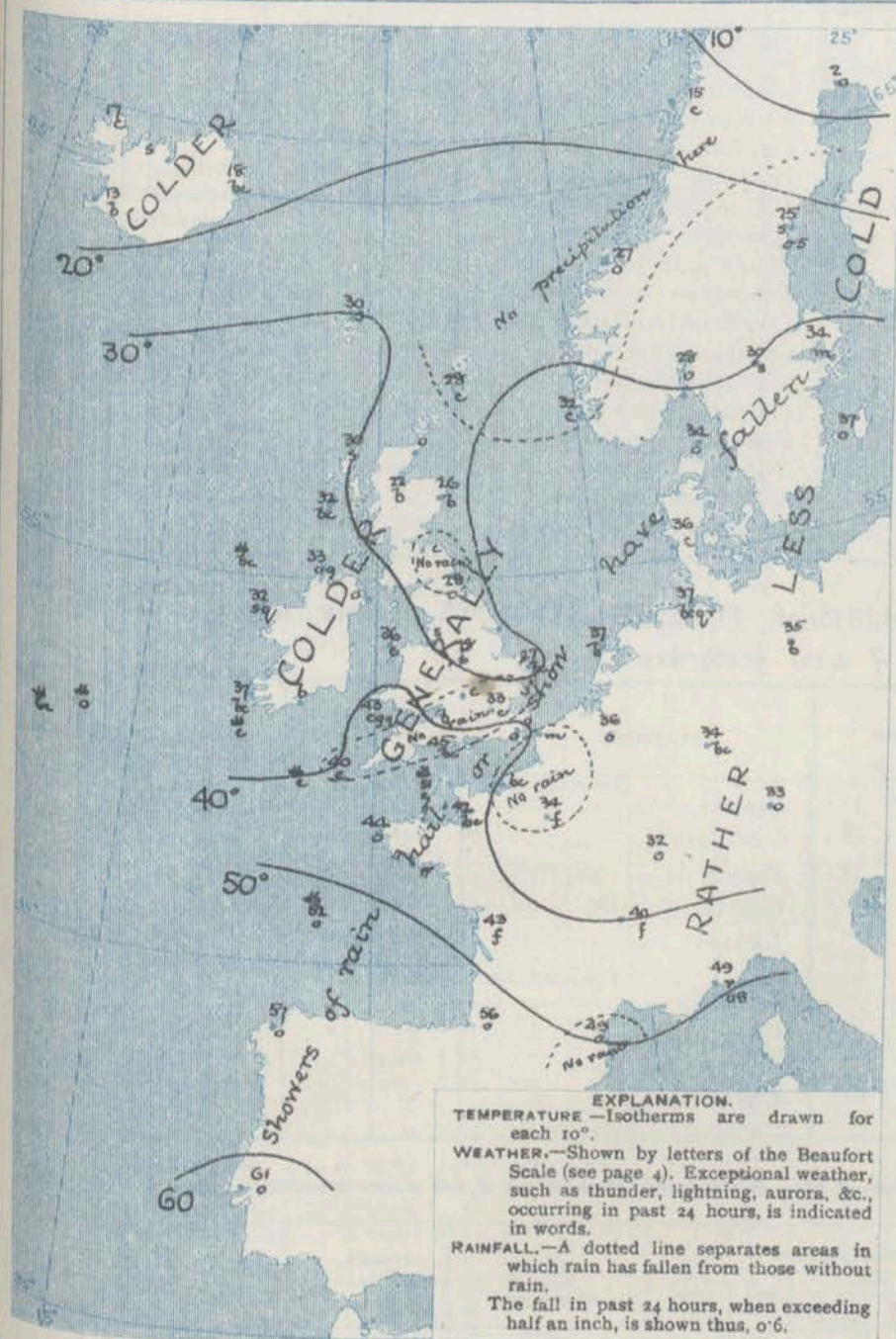
The distribution of pressure has become very complex. In a depression near Stockholm the barometer is below 28.7 ins., in another on St. George's Channel it is below 29.2 ins., in a third, on the Bay of Biscay, it is below 29.3 ins., and in a fourth, over the Azores, it is down to 29 ins., while the highest pressure is above 30.1 ins. between Iceland and Greenland. The gradient is rather steep over the more northern parts of our area, slight elsewhere.

Circulating cyclonically round the various pressure minima, the wind varies greatly in direction, strong to a gale in force in the Scandinavian region, but mostly light in other countries. Over the British Isles temperature ranges from 22° at rain to 45° at Portland Bill; over Western Europe from 32° at Belfast to 56° at Biarritz, and 61° at Lisbon; in Scandinavia from 2° at Haparanda to 37° at Malmö; and in Iceland from 12° to 18°. On the Bay of Biscay the temperature of the air is 52°, that of the sea water 53°, on the western part of the Channel, 51° and 41° respectively. Fair to fine weather is reported locally in these Islands, but it is generally very cloudy or overcast, with snow at several home and foreign stations, rain squalls at Cuxhaven. The atmosphere is foggy at Paris and Rochefort. The sea is rough off Donaghadee, rather rough off Pembroke and the west of Ireland.



# CHARTS 19<sup>th</sup> December 1909.

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



### NOTES ON YESTERDAY'S WEATHER

During yesterday temperature rose to 46° at Talencia, Jersey and Bognor but at Lumburg Head and Naim it did not exceed 32°, and at Stromway 30°. Sharp frost occurred in the night in many districts, the thermometer in the shade sinking to 22° at Naim, 21° at Lumburg Head, and 20° at Strom. Rain or snow has fallen generally but no large amounts are reported. Most stations had a little sunshine, but Talencia had 5 1/2 hours and Strom 6 hours. Wireless reports show that ships experienced easterly to northerly winds, light to a gale in force, with fair weather, on the Bay of Biscay and as far west as the 30th meridian.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

## FORECASTS

For the 24 hours commencing at NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { a  
b
- 1
- 2 { a  
b
- 3
- 4 { a  
b
- 5
- 6 { a  
b
- 7 { a  
b
- 8 { a  
b
- 9 { a  
b
- 10 { a  
b

- None issued -

### II WESTERN CHANNEL AND BAY.

### FORECAST DISTRICTS.

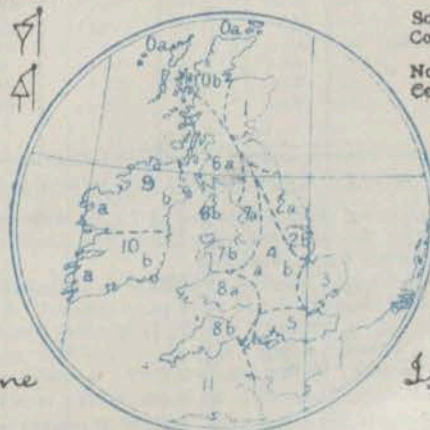
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

South Cone.   
 North Cone.

Signals hoisted this morning.

South Cone.   
 North Cone.





**TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.**

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	44	26	b	6.0	-	Worthing, to 6 p.m. ...	41	36	r. o. c. bc	0.0	0.24
Dublin (City), to 4 p.m. ...	40	35	o. cl. bc	-	0.02	Brighton, to 6 p.m. ...	-	-	"	0.0	0.14
Rossall Beach, to 6 p.m. ...	40	34	cr. c	-	0.02	Seaford, to 6 p.m. ...	44	36	"	-	-
Blackpool, to 9 p.m. ...	40	33	op. bc	0.3	0.02	Eastbourne, to 6 p.m. ...	-	-	"	0.5	0.07
Southport, to 9 p.m. ...	40	29	c. o. cl. b	0.5	0.02	Bexhill-on-Sea, to 9 p.m. ...	44	36	"	0.3	-
Rhyl, to 6 p.m. ...	43	34	o. c	0.5	0.19	Hastings ...	-	-	"	-	-
Colwyn Bay, to 6 p.m. ...	41	36	c. o	0.0	0.24	Folkestone, to 6 p.m. ...	41	35	r. o. bc. c	0.1	0.21
Llandudno, to 9 p.m. ...	42	34	o. c. os. c	0.0	0.25	Ramsgate, to 6 p.m. ...	-	-	"	1.1	0.03
Bettws-y-Coed, to 6 p.m. ...	-	-	-	-	-	Margate, to 6 p.m. ...	41	37	"	2.0	0.26
Towyn, to 6 p.m. ...	43	33	o. bc. op. o	0.7	0.03	Felixstowe, to 6 p.m. ...	41	34	"	1.9	0.15
Aberystwyth, to 6 p.m. ...	44	38	"	0.5	-	Lowestoft, to 6 p.m. ...	-	-	"	-	-
Plymouth, to 9 p.m. ...	42	30	bc	2.1	0.05	Skegness, to 6 p.m. ...	41	35	r. bc	3.0	0.56
Paignton, to 6 p.m. ...	41	29	c. b	0.9	-	Scarborough, to 9 p.m. ...	41	29	o. bc	1.0	0.17
Torquay, to 6 p.m. ...	42	30	"	1.0	-	Harrogate, to 6 p.m. ...	37	28	c. b. bc. b	1.3	-
Weymouth, to 6 p.m. ...	43	36	c. bc. b	0.8	0.02	Buxton, to 6 p.m. ...	-	-	"	-	-
Bournemouth, to 6 p.m. ...	42	34	c. bc. b	2.0	-	Darwen, to 9 p.m. ...	37	25	o. bc. r. bc. bc	1.2	0.04
Southsea, to 6 p.m. ...	-	-	-	-	-	Manchester, to 9 p.m. ...	40	31	o. c. o. bc. b	0.0	-
Bognor, to 6 p.m. ...	46	36	bc. b. bc	0.1	0.04	Birmingham, to 9 p.m. ...	39	32	os. c	0.2	0.07

**TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.**

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	-	-	-	Ins.	Utrecht ...	41	27	r. r	0.43
Marseilles ...	55	50	r. r	0.16	Groningen ...	37	27	o. r	0.32
Malta ...	54	54	c	0.04	Zurich ...	-	-	o. r	0.04
Algiers ...	68	55	o. bc	-	Geneva ...	-	-	o. r	-
Tunis ...	63	52	c. b	-	Lugano ...	-	-	o. r	-
Palermo ...	63	42	b. c	-	Berne ...	27	-	m	Measured 7.30 a.m.
Naples ...	53	44	b. o	-	Coire ...	37	-	b	-
Brindisi ...	54	41	b. b	-	Castasegna ...	32	-	b	-
Rome ...	52	45	b. o	-	Davos ...	25	-	b	-
Vienna ...	23	23	o. o	-					
St. Petersburg ...	36	30	o. o	0.04					

**WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.**

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Dis- turb- ance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.		
	Lat.	Long.		Direc.	Force.		Air.		Sea.			Lat.	Long.		Direc.	Force.			
							Dry Bulb.	Wet Bulb.											
	°	°	Ins.				°	°	°			°	°	Ins.					
H. M. S.	18th Dec. 11am	47.13N	6.40W	29.59	N	1	bc	52	47	55	3	Mount Temple	18th Dec 3pm	50N	15W	29.44	NW	1-3	
	19th " 8am	46.44N	2.45W	29.36	SSW	4	c	51	46	47	3		" 6pm	50N	16W	29.45	NNW	4-5	
	" 6pm	46.15N	5.36W	29.35	NNE	3	bc	49	45	51	3	St Paul	18th - 3pm	50N	11W	29.53	W	1-3	
	" 7am	46.12N	7.21W	29.37	E	3	r	51	50	52	3		" 6pm	50N	13W	29.50	W	1-3	
	" 7am	46.40N	7.20W	29.23	NE	4	o	52	51	53	3		Carmania	17th - 3pm	50N	27W	29.68	E	8-9
	" 7pm	46.58N	8.12W	29.32	ESE	3	o	53	52	54	4			" 6pm	50N	26W	29.69	E	8-9
" 10pm	46.16N	3.9W	29.51	ESE	3	o	56	56	54	3	18th - 4am	50N		22W	29.73	ENE	6-7		
			Barometer falling, wind increasing.								" 7am	51N		22W	29.72	ENE	4-5		
Teutonic	17th " 11am	51N	14W	29.87	NE	4-5	-	-	-	-	-	Carmania	" 3pm	51N	17W	29.59	N	4-5	
	" 7am	51N	17W	29.84	ENE	4-5	o	-	-	-	-		" 6pm	51N	16W	29.56	N	4-5	
	" 3pm	51N	20W	29.79	ENE	4-5	-	-	-	-	-		19th - 4am	51N	11W	29.33	NW	6-7	
	" 6pm	51N	21W	29.78	ENE	4-5	o	-	-	-	-		" 7am	51N	10W	29.35	NW	6-7	
Munster	18th - 11am	50N	12W	29.62	NE	4-5	-	-	-	-	-	New York	17th - 3pm	49N	25W	29.64	E	6-7	
	" 7am	50N	13W	29.65	N	4-5	o	-	-	-	-		" 6pm	49N	24W	29.65	E	6-7	
	" 3pm	50N	16W	29.62	WNW	1-3	-	-	-	-	-		18th - 4am	49N	20W	29.64	E	6-7	
	" 6pm	50N	18W	29.53	NE	4-5	c	-	-	-	-		" 7am	49N	19W	29.65	E	4-5	

**NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—**

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 661 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; i. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.
- \* Information for these columns is not usually received.
- † The figures in the "wet bulb" column represent the relative humidity.
- ‡ Received too late for insertion in Charts.

**TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.**

**METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.  
W. N. SHAW, (Director.)**



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

Monday  
20th December 1909.

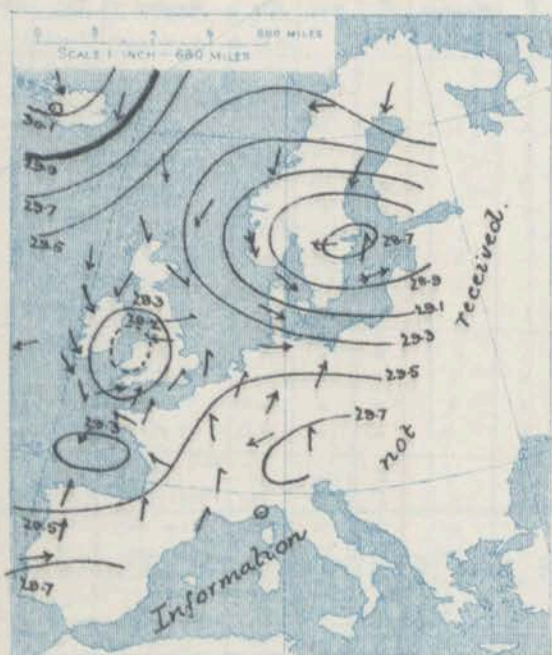
Rainfall.			YESTERDAY EVENING.										THIS MORNING.										PAST 24 HOURS.																						
Bar.	Ther.	Ins.	BAROM.		TEMP.		WIND.		BAROMETER.		TEMPERATURE.			WIND.		TEMP.		Weather.		Sun-shine.		Rainfall.																							
0.0	0.10	0.24	At 82° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Force (0 to 12).	At 82° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12).	Weather.	Sea (0 to 9).	Max.	Min.	Weather.	Sun-shine.	Hours.	Ins.																									
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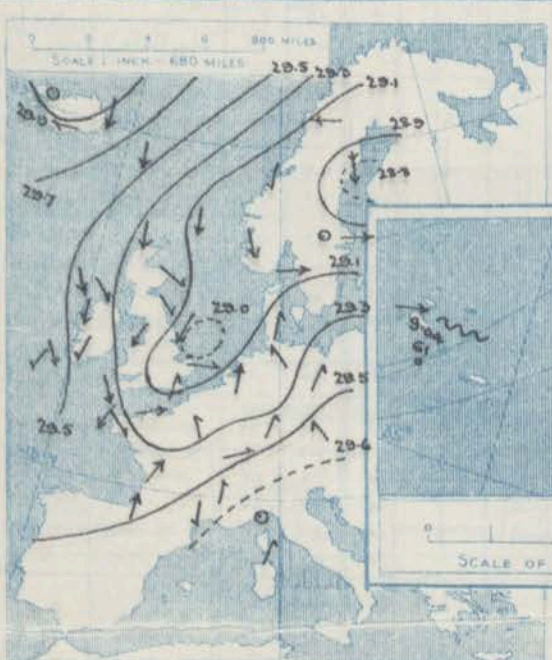
# SUPPLEMENTARY CHARTS OF BAROMETER AND WIND

FOR 7 A.M. AND 6 P.M. YESTERDAY

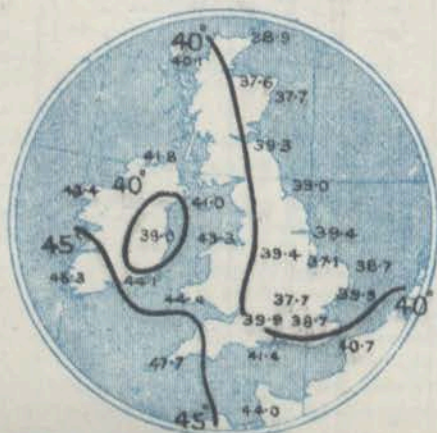
7 A.M. YESTERDAY.



6 P.M. YESTERDAY



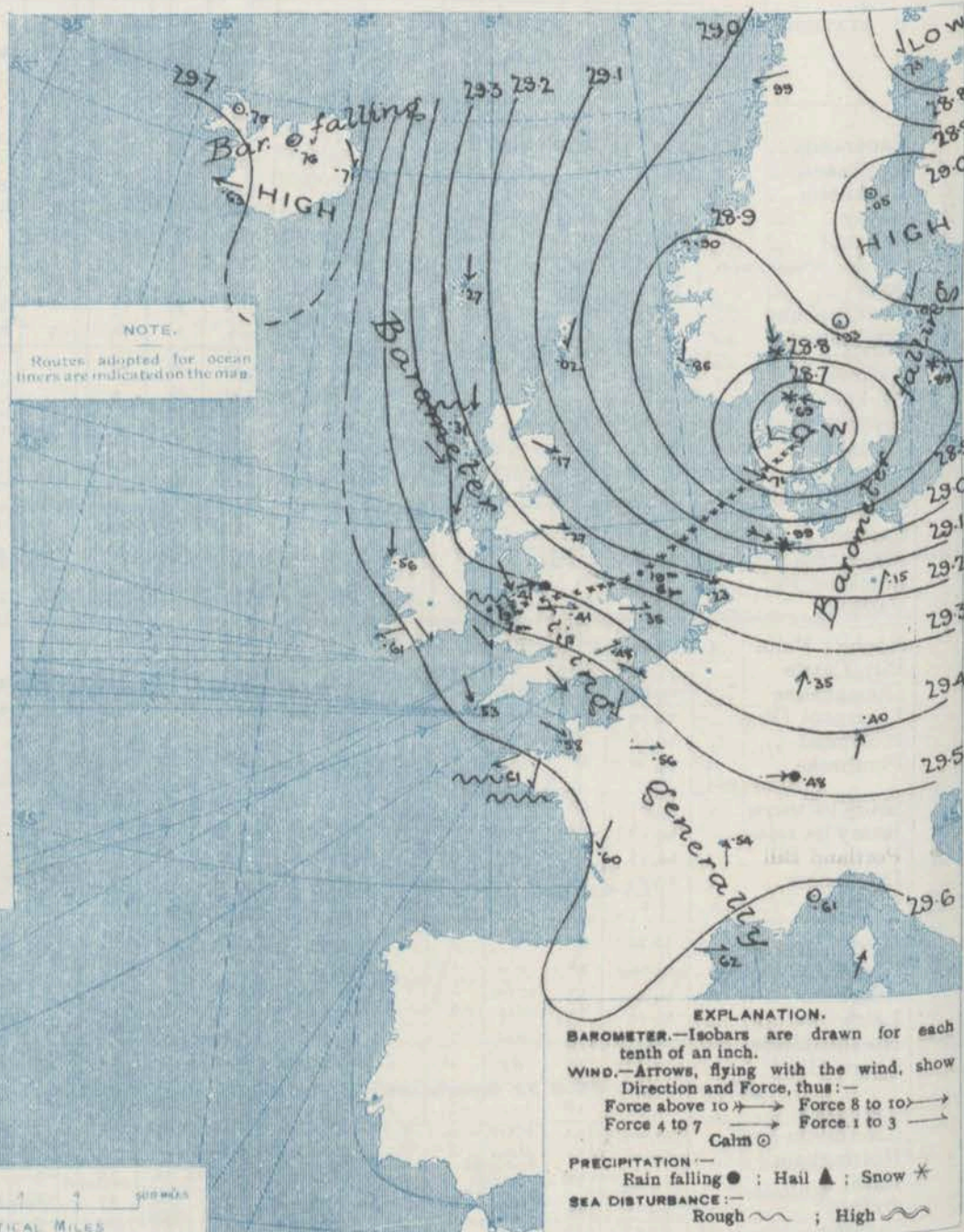
AVERAGES OF TEMPERATURE AT 8. A.M.  
FOR THE MONTH OF DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Monday,

WEATHER 20<sup>th</sup> Decr

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



## NOTES ON THE GENERAL SITUATION AT 7 A.M.

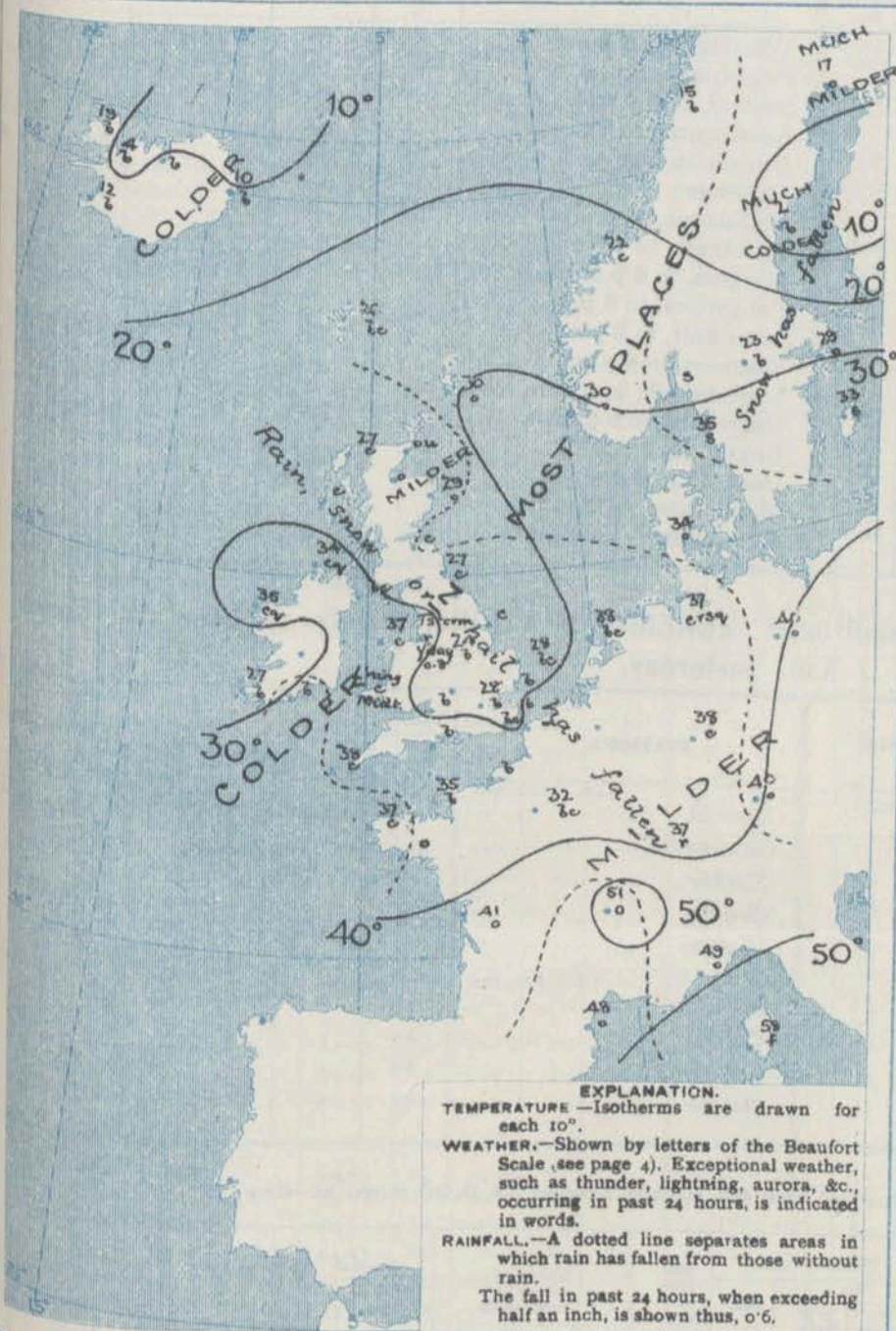
The depression which lay yesterday over the St. George's Channel has travelled in an east-north-easterly direction across England and the North Sea, and now lies over Denmark. The highest pressure, 29.7 ins. is still found over Iceland, but a new depression which is advancing from the westward, is causing a decided fall of the barometer in that island.

Over the greater part of western Europe the wind circulates round the Danish depression, and on the more exposed portions of our own northern coasts the North-easterly to North-westerly current is strong in force. Light North-easterly breezes are reported in the west of France. Temperature has changed rather irregularly, but has fallen in most places. Frost prevails over by far the larger portion of the United Kingdom, the lowest morning readings reported being 24° at Nottingham, and 27° at Stornoway, North Shields, Dungeness and Valenciennes. The Continental values range from 51° at Lyons to 20° and less over northern Scandinavia, and to 2° at Hernösand. The weather is fair or fine over the greater part of the United Kingdom and France, but snow is falling in Denmark and northern Germany, and rain at Belfort. The sea is moderate or slight generally but rather rough at Stornoway and Holyhead, as well as in the Bay of Biscay.



# CHARTS 20<sup>th</sup> December, 1909

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.





# DAILY WEATHER REPORT. Monday, 20th December 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	41	20	t	6.0	-	Werthing, to 6 p.m. ...	46	30	r.c. or, o.c. b	2.4	0.07
Dublin (City), to 4 p.m. ...	34	29	c. or h. b	*	0.52	Brighton, to 6 p.m. ...	45	30	*	2.4	0.04
Rossall Beach, to 6 p.m. ...	33	26	os	0.0	0.26	Seaford, to 6 p.m. ...	45	30	*	2.3	0.14
Blackpool, to 9 p.m. ...	31	27	os. o. os	0.0	0.20	Eastbourne, to 6 p.m. ...	45	29	*	2.0	0.27
Southport, to 9 p.m. ...	37	27	*	0.5	0.20	Bexhill-on-Sea, to 9 p.m. ...	45	32	*	2.3	0.18
Rhyl, to 6 p.m. ...	40	31	o	0.0	0.34	Hastings ...	*	*	*	2.1	*
Colwyn Bay, to 6 p.m. ...	36	28	os. o. os. b	0.0	0.40	Folkestone, to 6 p.m. ...	44	29	b. c. o. r	1.8	0.05
Llandudno, to 9 p.m. ...	39	32	r. os. b	0.0	0.21	Ramsgate, to 6 p.m. ...	*	*	*	1.2	0.07
Bettws-y-Coed, to 6 p.m. ...	43	33	*	0.7	0.21	Margate, to 6 p.m. ...	43	32	b. r	1.0	0.09
Towyn, to 6 p.m. ...	43	33	*	2.8	0.09	Felixstowe, to 6 p.m. ...	41	24	b. c. o. s. r	0.0	0.09
Aberystwyth, to 6 p.m. ...	48	32	c. b. r	1.5	0.05	Lowestoft, to 6 p.m. ...	37	30	c. b. b	0.0	0.20
Plymouth, to 9 p.m. ...	47	29	*	1.7	0.05	Skegness, to 6 p.m. ...	34	27	*	0.0	0.75
Torquay, to 6 p.m. ...	43	30	c. b. p	2.6	0.09	Scarborough, to 9 p.m. ...	29	23	b. os. o	0.0	*
Weymouth, to 6 p.m. ...	44	31	*	1.4	0.07	Harrogate, to 6 p.m. ...	*	*	*	*	*
Bournemouth, to 6 p.m. ...	44	31	*	*	*	Buxton, to 6 p.m. ...	*	*	*	*	*
Southsea, to 6 p.m. ...	44	31	*	*	*	Darwen, to 9 p.m. ...	*	*	*	*	*
Bognor, to 6 p.m. ...	44	31	*	*	*	Manchester, to 9 p.m. ...	37	27	s. o. c. s	1.6	0.15
						Birmingham, to 9 p.m. ...					

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
19th Dec. 1909.	•	•		Ins.	19th Dec. 1909.	°			Ins.
Madeira ... ..	Observations not received.				Utrecht ... ..	Observations not received.			
Marseilles ... ..					Groningen ... ..	•	•		
Malta ... ..					Zurich ... ..	•	•		
Algiers ... ..					Geneva ... ..	•	•		
Tunis ... ..					Lugano ... ..	•	•		
Palermo ... ..									
Naples ... ..					18th Dec. 1909.	1.30 p.m.		1.30 p.m.	
Brindisi ... ..					Berne ... ..	27	•	m	
Rome ... ..					Coire ... ..	37	•	b	
Vienna ... ..					Castasegna ... ..	32	•	b	
St. Petersburg ... ..					Davos ... ..	25	•	b	
									Measured 7.50 a.m.

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	
	Lat.	Long.		Direc.	Force.		Air.		Sea.			Lat.	Long.		Direc.	Force.		
							Dry Bulb.	Wet Bulb.										
	°	°	Inch.				°	°	°			°	°	Inch.				
H.M.S. { 19th Dec. 4pm	48° N	6° 34' W	29.40	NNE	3	0	47	45	53	3	Furness { 19th Dec. 3pm	55° N	8° W	29.18	N	4.5		
	Barometer falling very slightly, wind increasing, atmosphere very clear.											.. 6pm	55° N	9° W	29.25	NNW	4.5	
	" 6pm	48° 30' N	5° 54' W	29.41	NE	5	0	45	43	53		3	Munich { 19th Dec. 4pm	50° N	19° W	29.47	NE	6.7
Barometer rising very slightly, wind increasing.											.. 7pm	50° N	20° W	29.46	E	6.7		
Teutonic { 18th Dec. 4pm	50° N	26° W	29.72	E	6.7						St Paul { 19th Dec. 4pm	50° N	17° W	29.51	NE	4.5		
	" 7pm	50° N	28° W	E	6.7	bc						" 7pm	50° N	19° W	29.50	NE	6.7	
Caledonia { 17th Dec. 3pm	54° N	29° W	29.93	ENE	6.7						Arabia { 18th Dec. 4pm	50° N	27° W	29.73	E	6.7		
	" 6pm	54° N	28° W	ENE	6.7	c						" 7pm	50° N	26° W	29.73	E	4.5	
	18th Dec. 4pm	54° N	24° W	NNE	1.3							" 3pm	50° N	28° W	29.73	ENE	4.5	
	" 7pm	54° N	22° W	NNE	6.7	b						" 6pm	51° N	22° W	29.68	ENE	6.7	
	" 3pm	54° N	18° W	NNW	8.9							19th Dec. 4pm	51° N	18° W	29.61	ENE	6.7	
	" 6pm	54° N	17° W	N	8.9	c						" 7pm	51° N	17° W	29.61	ENE	4.5	
	19th Dec. 4pm	55° N	13° W	M	8.9							" 3pm	51° N	15° W	29.61	ENE	4.5	
	" 7pm	55° N	12° W	N	8.9	bc						" 6pm	51° N	13° W	29.62	NE	6.7	
" 1pm	55° N	7° W	NNE	4.5	0									N	6.7			

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.61 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; i. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.
- \* Information for these columns is not usually received.
- † The figures in the "wet bulb" column represent the relative humidity.
- ‡ Received too late for insertion in Charts.

**TERMS OF SUBSCRIPTION** for the Daily Weather Report  
and for transmission of Forecasts by telegraph may be  
obtained on application.

METEOROLOGICAL OFFICE,  
68, VICTORIA STREET, S.W.  
**W. N. SHAW, (Director.)**



1909.

DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

Tuesday  
21st December 1909.

Bar. Ins. Rainfall  
2.4 0.07  
2.4 0.04  
2.3 0.14  
2.0 0.07  
2.3 0.15  
2.1  
1.8 0.05  
1.2 0.07  
1.0 0.09  
0.0 0.09  
0.0 0.26  
0.0  
0.0  
1.6 0.15  
hours  
RAIN  
Ins.  
received  
Measured  
7.30 a.m.  
d. Weather  
Force.  
4.8  
4.5  
6.7  
6.7  
4.5  
6.7  
6.7  
4.5  
4.5  
6.7  
6.7  
Report  
may be  
in.)

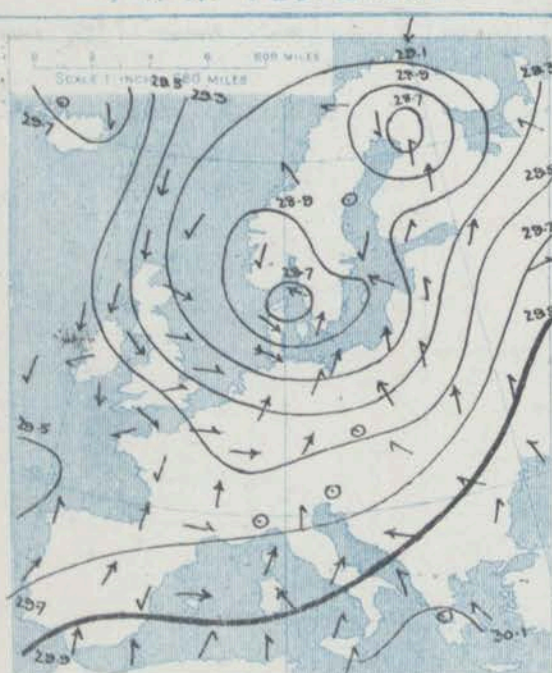
		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.				
		BAROM.		TEMP.		WIND.	BAROMETER.		TEMPERATURE.			WIND.		Force	Weather.	Sea	TEMP.		Weather.	Sun.	Rainfall.
STATIONS.		At 82° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Force (0 to 12).	Dir.		At 82° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Dir.	Force (0 to 12).				Max.	Min.			
		Ins.	"	"	"	Weather.	Ins.	Ins.	"	"	"	"	"	"	"	"	"	"	"	Hours.	Ins.
SCANDINAVIA.																					
Haparanda...		28.89	12	2	0	S	28.86	+13	14	14	-3	Z	0	0			18	10	*	*	0.12
Hernösand...		29.04	-5	Z	0	b	29.08	+03	13	12	+11	W	2	0	*		14	-6	*	*	-
Stockholm...		28.99	17	WNW	6	0	29.38	+38	13	12	-16	WSW	2	0	*		30	13	*	*	0.12
Wisby...		28.95	29	N	8	0	29.40	+51	25	22	-8	WSW	4	0	*		36	25	*	*	0.12
Karlstad...		29.21	10	Z	0	b	29.23	+50	3	2	-20	Z	0	0	*		*	*	*	*	0.04
Færder (X'lantia Fjord)		29.20	22	NNE	3	0	29.29	+55	20	17	-6	NW	2	0	*		26	19	*	*	0.04
Bodø...		28.93	13	E	4	b	29.01	+02	16	8	+1	E	2	0	*		16	12	*	*	-
Christiansund...		29.12	29	S	1	c	29.22	+32	33	30	+11	WNW	7	0	*		34	21	*	*	0.24
Skudesnaes...		29.15	28	Z	0	b	29.17	+62	28	27	-2	E	4	0	*		30	25	c. b	*	-
ICELAND & FAEROE.																					
Isafjord...		29.65	19	E	6	b	29.51	-24	21	*	+2	E	7	0	*		*	*	*	*	*
Reykjavik...		29.47	14	E	3	c	29.25	-38	24	*	+12	E	4	0	*		*	*	*	*	*
Seydisfjord...		29.63	12	WNW	4	b	29.58	-13	10	*	0	NNW	5	0	*		*	*	*	*	*
Thorshavn...		29.40	26	NNW	5	c	29.48	+21	14	*	-12	Z	0	0	*		*	*	*	*	*
BRITISH ISLANDS.																					
Sumburgh Head		29.06	28	NNE	4	S	29.42	+40	31	30	+1	NW	4	0	*		31	19	c. s	*	0.42
Stornoway...		29.36	29	NW	5	bog	29.58	+27	30	30	+3	NW	2	0	*		32	25	c.pog. bcr	0.6	0.10
Castleb. (Barra Id.)		29.51	33	NW	4	bc	29.64	+23	38	34	+9	WSW	3	0	*		38	28	c. bc. sp. bc.	2.5	-
Malin Head...		29.49	34	NNW	5	oap	29.67	+28	30	30	-4	SE	1	0	*		36	20	c.pog. bcr	*	0.05
Blacksod Pt. ...		29.63	32	WNW	3	0	29.64	+08	35	33	0	SE	1	0	*		36	27	bc. sp. bc.	*	0.21
Valencia...		29.66	29	ESE	1	b	29.58	-03	39	35	+12	E	4	0	*		41	25	bc. b	5.7	0.03
Roche's Point...		29.67	30	N	2	b	29.66	+07	40	36	+9	E	4	0	*		41	28	b3. bcr. c	*	0.01
Birr Castle...		29.66	23	Z	0	b	29.72	+15	14	13	-10	Z	0	0	*		31	12	b	3.7	0.01
Donaghadee...		29.57	30	NNE	2	bc	29.73	+35	24	24	-6	NNE	1	0	*		32	23	bc. os. bc. b	*	0.05
Liverpool Obsy...		29.58	34	WSW	4	bc	29.76	+38	33	31	+1	NNW	2	0	*		37	31	bc. os. s. bc.	2.6	0.25
Holyhead...		29.59	36	WNW	4	c	29.72	+31	32	30	-5	S	1	0	*		38	30	c	*	-
Pembroke (St. Ann's Hd.)		29.65	35	N	2	b	29.76	+24	31	31	-5	NE	3	0	*		40	30	c. bc. bcr	5.3	-
Scilly (St. Mary's)		29.63	41	NNE	2	0	29.62	+09	37	34	-1	ENE	4	0	*		44	36	bc. o	0.0	-
Jersey (St. Aubins)		29.69	34	NW	3	0	29.75	+17	38	35	+3	ESE	3	0	*		44	30	bc. ogm. c. b	3.5	-
Portland Bill...		29.64	40	WNW	2	bc	29.75	+22	38	36	+1	NE	2	0	*		42	33	bc	6.1	-
Dungeness...		29.63	34	W	4	bcr	29.79	+32	27	27	0	NW	2	0	*		40	24	bcr	5.4	-
Dover...		*	*	*	*	*	29.83	+32	26	26	-7	NW	1	0	*		37	25	b. bcr	7.3	-
Wick...		29.27	28	N	3	c	29.58	+47	27	27	-2	N	2	0	*		33	18	c. s	*	0.14
Nairn...		29.36	25	W	2	b	29.62	+40	27	26	-2	W	1	0	*		30	24	c. s. c. bc.	0.5	0.05
Aberdeen...		29.37	26	W	3	b	29.64	+47	28	26	-1	WNW	2	0	*		31	25	oap. c. bc. spg.	1.0	0.06
Leith...		29.44	28	W	2	b	29.67	+43	29	28	+1	WSW	2	0	*		32	26	ap. bc. b. bc.	*	-
North Shields		29.47	29	W	3	bc	29.70	+43	27	27	0	W	3	0	*		34	25	bc	4.3	-
Spurn Head...																					
Yarmouth...		29.54	32	WSW	3	bc	29.74	+39	27	27	-1	W	2	0	*		34	27	bc	6.7	-
Clacton-on-Sea...		29.62	33	WSW	3	b	29.78	+34	27	26	-2	WSW	2	0	*		35	26	bc. bcr	6.0	-
Nottingham...		29.60	28	W	2	c	29.78	+37	20	19	-4	W	1	0	*		34	17	bc. os. o. b	2.5	0.03
Bath...		29.63	29	Z	0	m	29.79	+26	20	20	-9	Z	0	0	*		39	19	-	6.9	-
Oxford...		29.70	31	WSW	2	b	29.85	+32	25	24	-3	WSW	1	0	*		38	24	b	*	-
London (St. James's Pk)		29.65	34	W	1	bcr	29.80	+32	27	26	-1	WSW	1	0	*		38	25	b. bcr	4.5	-
GERMANY, & C.																					
The Scaw (Skagen)		29.26	28	NNE	1	0	29.40	+71	28	27	-7	NNE	2	0	*		36	27	*	*	0.16
Fanø...		29.34	33	SW	4	b	29.49	-22	33	32	-1	NNW	4	0	*		37	32	*	*	0.08
Cuxhaven†...		29.42	33	W	5	0	29.57	+58	32	32	-8	SW	5	0	*		37	32	*	*	0.08
The Helder...		29.52	37	W	6	c	29.72	+49	38	34	0	NW	5	0	*		38	34	*	*	0.04
Brussels...		*	*	*	*	*	29.82	*	27	25	*	Z	0	0	*		36	25	*	*	-
Berlin†...		29.57	35	SW	5	0	29.74	+59	28	72	-12	W	3	0	*		41	28	*	*	-
Frankfurt†...		29.76	30	SW	2	b	29.84	+49	26	96	-12	SE	1	0	*		48	26	*	*	-
Munich†...		29.82	30	Z	0	S	29.82	+42	28	100	-12	NW	2	0	*		43	27	*	*	0.67
FRANCE.																					
C. Gris Nez...		29.61	33	W	4	bc	29.80	+31	34	32	+1	SSW	1	0	*		39	32	*	*	-
La Hève...		29.78	36	Z	0	b	29.84	?	32	30	-5	E	1	0	*		45	28	*	*	-
Brest...		29.66	39	ESE	3	0	29.66	+05	38	36	+1	E	4	0	*		45	36	*	*	-
Lorient...		?	33	E	4	S	?	?	36	36	-1	ESE	5	0	*		43	33	*	*	0.04
Rochefort...		29.52	40	ENE	4	r	29.64	+04	41	40	0	E	4	0	*		52	36	o. T	*	0.16
Biarritz...		29.51	59	SSW	4	r	29.71	+16	59	57	+2	SSW	4	0	*		61	54	*	*	0.16
PARIS.																					
Paris...		29.73	30	S	1	b	29.82	+26	27	27	-5	ENE	1	0	*		40	27	*	*	-
Belfort...		29.76	34	W	2	m	29.83	+35	30	29	-7	WNW	3	0	*		38	29	*	*	0.04
Lyons...		29.69	37	NW	2	r	29.82	+28	36	36	-15	E	1	0	*		52	34	*	*	0.39
Nice...		29.60	52	Z	0	c	29.57	-04	51	47	+2	Z	0	0	*		57	48	*	*	0.12
Perpignan...		29.58	51	E	1	0	29.79	+17	46	45	-2	SW	1	0	*		55	45	*	*	-
Sanguinaire...		29.83	59	SW	3	f	29.75	-01	57	54	-1	W	4	0	*		63	50	*	*	-
SPANISH PENIN.																					
Corunna...																					
Lisbon...																					
Azores (P. Delgada)...																					
" Horta...		28.93	57	WSW	5	tlr	28.84	-20	56	50	-5	WSW	5	0	*		66	55	*	*	0.04



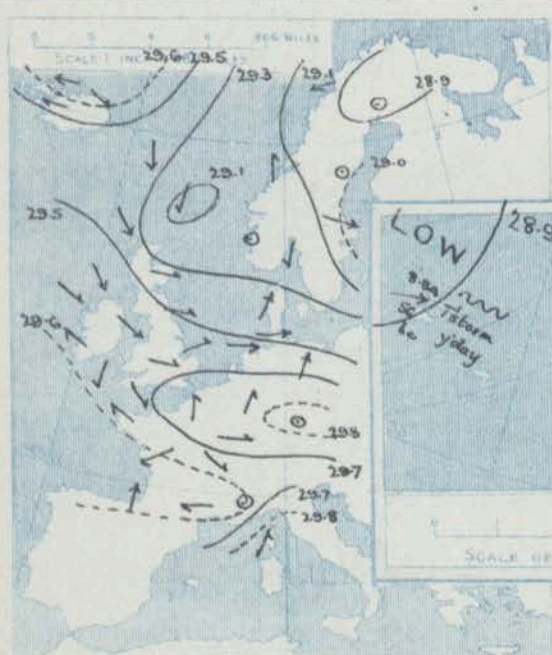
# SUPPLEMENTARY CHARTS OF

## BAROMETER AND WIND FOR 7 A.M. AND 6 P.M. YESTERDAY

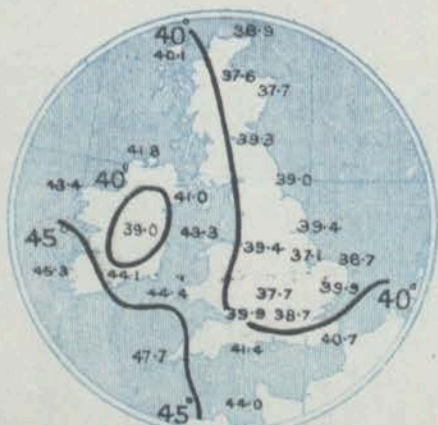
### 7 A.M. YESTERDAY.



### 6 P.M. YESTERDAY



### AVERAGES OF TEMPERATURE AT 8 A.M. FOR THE MONTH OF DECEMBER. (Derived chiefly from Observations extending over the 35 years—1871-1905.)

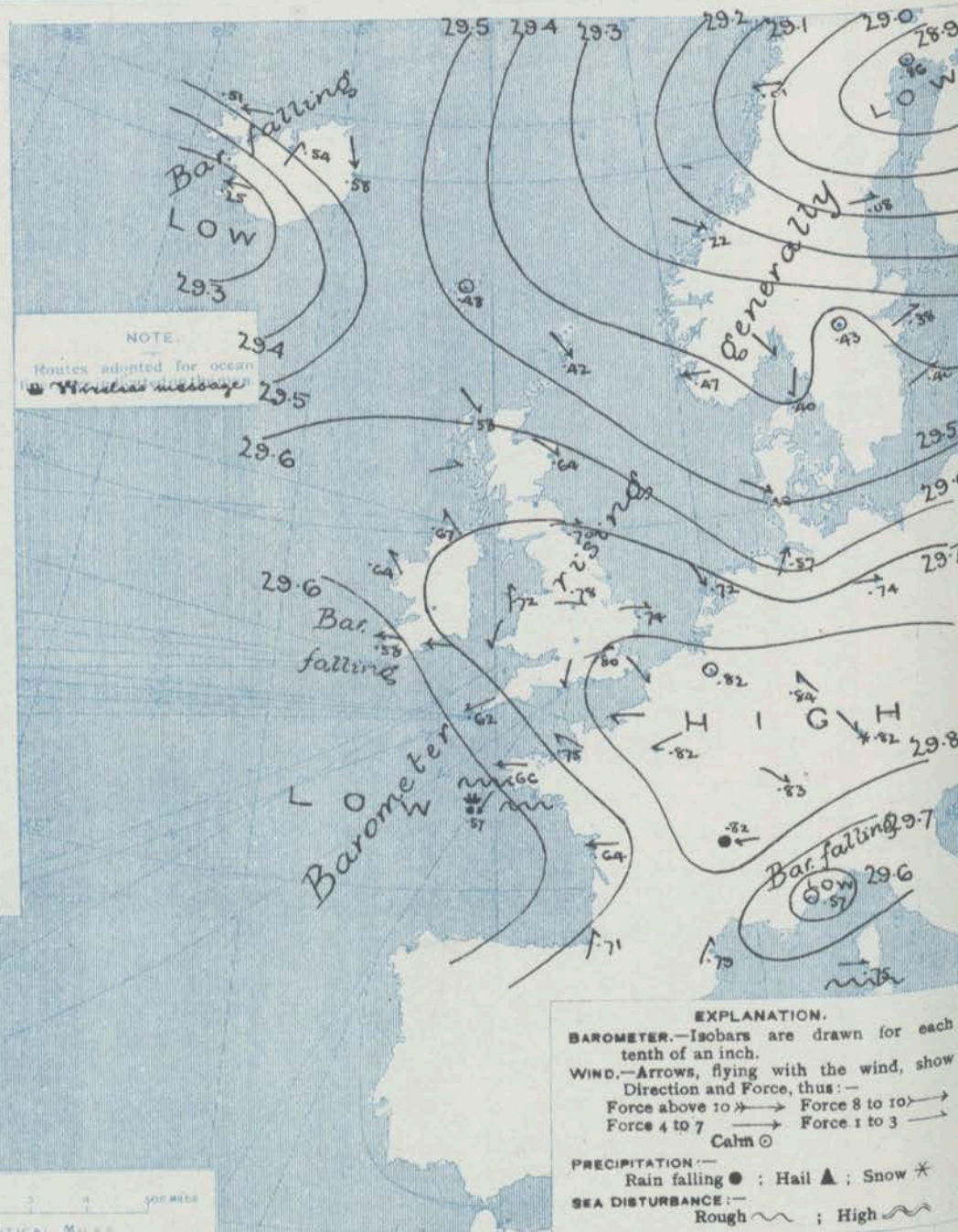


Tuesday,

# WEATHER

21<sup>st</sup> Decr

## 1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



**EXPLANATION.**  
**BAROMETER.**—Isobars are drawn for each tenth of an inch.  
**WIND.**—Arrows, flying with the wind, show Direction and Force, thus:—  
Force above 10 → Force 8 to 10 →  
Force 4 to 7 → Force 1 to 3 →  
Calm ○  
**PRECIPITATION.**—  
Rain falling ● ; Hail ▲ ; Snow ✱  
**SEA DISTURBANCE.**—  
Rough ~~~~~ ; High ~~~~~

### NOTES ON THE GENERAL SITUATION AT 7 A.M.

An exceedingly complex distribution of atmospheric pressure is disclosed over the region under observation. In depressions over Northern Sweden and the Azores, the barometer is below 28.9 ins.; in one off the south of Ireland it is below 29.25 ins., and off our southwest coast and off the Riviera it is below 29.6 ins. The highest pressure, which extends from London across South Germany, is only a little above 29.8 ins. The gradient is mostly very slight.

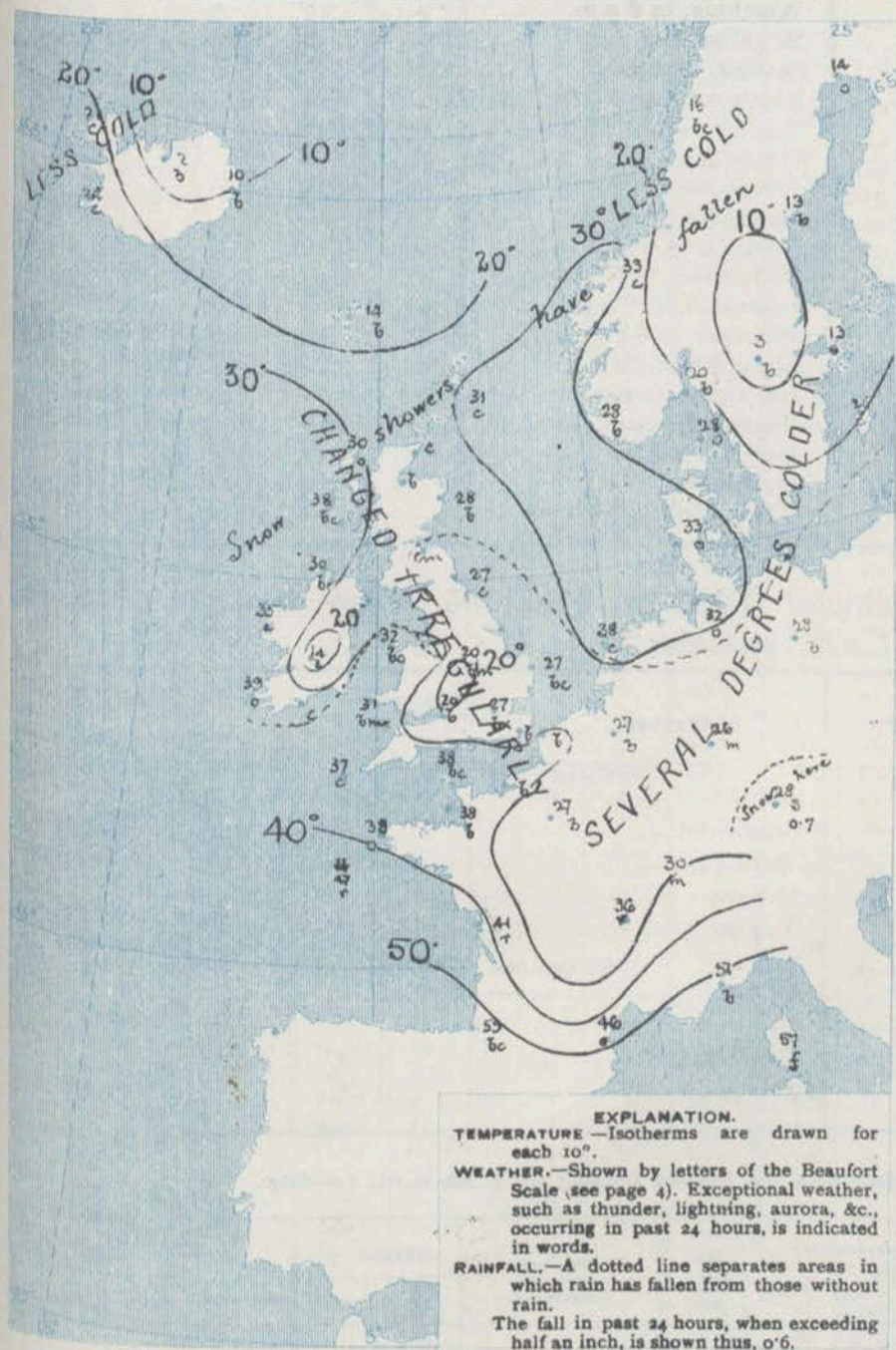
The winds vary greatly in direction, circulating round the various pressure minima. As a rule the force is very light, but a high wind is blowing on the upper part of the Bay of Biscay, at Christiansund and in the north-east of Iceland. Temperature is changing irregularly, but in most regions it is very low. At the home stations the values range from 14° in Central Ireland to 40° at Roche's Point; over western Europe from 26° at Frankfurt to 59° at Biarritz; over Scandinavia from 3° at Karlstad to 33° at Christiansund; and in Iceland from 1° to 24°; on the Bay of Biscay the temperature of the air is 47°, that of the sea water 48°. Fair to very fine weather prevails extensively, but rain is falling on the Bay and across to Lyons, snow at Munich. The sea is moderate to rough on the Bay, slight to very smooth in nearly all other regions.



# CHARTS

21<sup>st</sup> December, 1909.

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



### NOTES ON YESTERDAY'S WEATHER.

During yesterday temperature rose to 40° or a little above only at some southern stations, in several districts it remained below the freezing point, Buxton, Harrogate and Thame not exceeding 30°. Very severe frost occurred in the night, the lowest of the minima being 12° in Central Ireland. Snow fell in many places, heaviest in Shetland. Dublin, Manchester and Sully report no bright sunshine, but generally the records were exceptionally large for the season, exceeding 6 hours at several southern stations, and amounting to 7.3 hours at Dover and Hastings.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

Surrounded by low pressure systems the conditions over the British Isles will remain of a changeable, wintry type during the coming 24 hours.

## FORECASTS

For the 24 hours commencing at NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { a } Light variable N.W. and W. breezes, backing later; changeable, fine to dull, some snow; very cold, temperature rising later.
- 1 { b }
- 2 { a }
- 3 { b } Light W. to variable breezes, probably S.E. later; fine to dull, some snow; very cold.
- 4 { a }
- 5 { b } Wind becoming S.E. to E., freshening on coast; fine to dull, some snow; very cold.
- 6 { a }
- 7 { b } Same as Nos. 0 & 1.
- 8 { a }
- 9 { b } Same as Nos. 2 to 4.
- 10 { a }
- 11 { b } E. and S. breezes, freshening later, fine to dull, some snow; cold.

### WESTERN CHANNEL AND BAY.

E. and S.E. winds, strong to moderate; sea rough to slight; changeable, some rain and snow; cold.

### FORECAST DISTRICTS.

Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

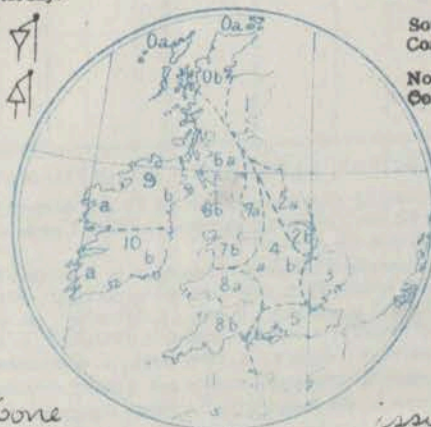
Signals hoisted this morning.

South Cone.

South Cone.

North Cone.

North Cone.



None

issued.



## DAILY WEATHER REPORT.

Tuesday, 21st December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	39	19	bc. b. o. s	4.2	0.04	Worthing, to 6 p.m. ...	39	26	b. c	6.6	-
Dublin (City), to 4 p.m.	31	24	b. o. b. x	-	-	Brighton, to 6 p.m. ...	39	28	-	6.9	-
Rossall Beach, to 6 p.m.	36	27	cp. h. e	-	0.06	Seaford, to 6 p.m. ...	41	27	b. b. x	6.8	-
Blackpool, to 9 p.m. ...	36	29	c. o. s. c	1.9	1.04	Eastbourne, to 6 p.m. ...	40	28	-	7.0	-
Southport, to 9 p.m. ...	36	28	o. s. c. o. s. b. c	2.4	0.16	Bexhill-on-Sea, to 9 p.m.	39	27	-	6.2	-
Rhyl, to 6 p.m. ...	32	26	-	1.0	0.10	Hastings ...	-	-	-	7.2	-
Colwyn Bay, to 6 p.m. ...	36	28	s. b	4.5	0.26	Folkestone, to 6 p.m. ...	39	26	v. o. b	6.8	0.09
Llandudno, to 9 p.m.	37	28	tl. c. b. c	4.2	-	Ramsgate, to 6 p.m. ...	-	-	-	6.3	0.02
Bettws-y-Coed, to 6 p.m.	36	22	b	2.5	-	Margate, to 6 p.m. ...	37	30	-	6.1	-
Towyn, to 6 p.m. ...	39	28	s. b. c. b. c	3.9	0.03	Felixstowe, to 6 p.m. ...	42	28	-	6.8	-
Aberystwyth, to 6 p.m. ...	41	36	-	1.5	-	Lowestoft, to 6 p.m. ...	36	27	sp. h. o. c. b	6.5	0.01
Plymouth, to 9 p.m. ...	43	28	bc. b. c	2.8	-	Skegness, to 6 p.m. ...	32	21	s. b	5.5	0.01
Paignton, to 6 p.m. ...	40	27	bc. b	5.2	-	Scarborough, to 9 p.m. ...	39	36	-	3.9	-
Torquay, to 6 p.m. ...	42	26	-	3.9	0.01	Harrogate, to 6 p.m. ...	30	18	o. b. b. c. b	4.6	0.05
Weymouth, to 6 p.m. ...	41	28	b	6.1	-	Buxton, to 6 p.m. ...	30	17	o. s. b. o	0.2	0.11
Bournemouth, to 6 p.m. ...	42	26	b	6.9	0.03	Darwen, to 9 p.m. ...	32	22	bc. o. s	1.6	0.11
Southsea, to 6 p.m. ...	40	29	-	6.8	-	Manchester, to 9 p.m. ...	34	18	bc. o. s. o. s	0.0	0.11
Bognor, to 6 p.m. ...	40	27	b	7.0	-	Birmingham, to 9 p.m. ...	-	-	-	-	-

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	-	-	-	Ins.	Utrecht ...	36	28	o. b	0.04
Marseilles ...	61	52	o. o	-	Groningen ...	37	28	o. c	0.04
Malta ...	66	57	b. b	-	Zurich ...	-	-	c. c	0.16
Algiers ...	70	61	bc. b	-	Geneva ...	-	-	c. r	0.24
Tunis ...	66	39	c. b	-	Lugano ...	-	-	r. r	2.09
Palermo ...	69	56	o. f	-	Berne ...	1.80 p.m.	1.80 p.m.	-	Measured 7.30 a.m.
Naples ...	60	51	b. o	0.12	Coire ...	Observations not received.			
Brindisi ...	56	43	b. b	-	Castasegna ...	-	-	-	-
Rome ...	61	55	o. o	-	Davos ...	-	-	-	-
Vienna ...	34	28	f. f	-					
St. Petersburg ...	?	32	m. c	-					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Direc.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Direc.	Force.	
H.M.S. ...	45° 50' N	7° 40' W	29.55	E	2	r	55	54	54	4				Ins.			
	46° 28' N	7° 39' W	29.56	E	5	r	50	50	54	4							
	47° 22' N	6° 42' W	29.56	ESE	8	r	47	47	48	6							
	47° 45' N	6° 17' W	29.57	ESE	7	r	47	47	48	4							
Vaderland ...	50° N	12° W	29.64	NNW	1-3	-	-	-	-	-							
	50° N	13° W	29.67	NNE	1-3	bc	-	-	-	-							

## NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—

(a) The morning observations are at 7 a.m., Western European time, (French Stations 661 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.

(b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

‡ Received too late for insertion in Charts.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
68, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

Wednesday  
22nd December, 1909

STATIONS.	YESTERDAY EVENING.						THIS MORNING.										PAST 24 HOURS.				
	Barom.	Temp.	Wind.				Barometer.	Temperature.	Wind.								Temp.				
	At 88° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Dir.	Force (0 to 12).	Weather.		At 88° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Dir.	Force (0 to 12).	Weather.	Sea (0 to 9).		Max.	Min.	Weather.	Sun-shine.	Moons.
	Inch.	"	"	"	"	"	Inch.	Inch.	"	"	"	"	"	"	"	"	"	"	"	"	Inch.
SCANDINAVIA.	Haparanda...	29.21	14	NNW	2	S	29.64	+78	1	1	-13	N	2	b	*	14	21	*	*	*	0.08
	Hernösand...	29.40	18	Z	0	b	29.72	+64	10	9	-3	Z	0	b	*	19	-6	*	*	*	-
	Stockholm...	29.63	18	WSW	2	b	29.84	+46	16	16	+3	W	2	b	*	19	10	*	*	*	-
	Wisby...	29.69	28	NW	6	b	29.86	+46	31	28	+6	NW	6	o	*	37	19	*	*	*	0.04
	Karlstad...	29.67	1	Z	0	c	29.91	+48	-2	-2	-5	Z	0	b	*	*	*	*	*	*	-
	Færder (X'ania Fjord)	29.61	21	W	2	b	29.80	+44	34	33	+14	S	2	o	2	*	18	*	*	*	-
	Bodö...	29.08	19	E	2	b	29.55	+54	21	19	+5	E	4	S	2	21	14	*	*	*	-
	Christiansund...	29.50	29	W	4	S	29.55	+33	31	29	-2	SE	1	o	3	33	28	*	*	*	0.51
ICELAND & FAEROE.	Skudesnaes...	29.70	34	WNW	4	b	29.67	+20	39	35	+11	SSE	8	c	4	39	28	c.b	*	*	-
	Isafjord...	29.45	22	E	7	C	29.28	-23	23	*	+2	E	9	C	*	*	*	*	*	*	*
	Reykjavik...	29.15	26	NE	6	C	28.96	-29	24	*	0	Z	0	S	*	*	*	*	*	*	*
	Seydisfjord...	29.51	11	WNW	2	b	29.27	-31	23	*	+13	ENE	2	S	*	*	*	*	*	*	*
BRITISH ISLANDS.	Thorshavn...	29.42	22	Z	0	C	29.20	-28	36	*	+22	SSW	2	bc	*	*	*	*	*	*	*
	Sumburgh Head	29.46	34	S	1	C	29.37	-05	38	36	+7	SSW	4	bc	3	39	24	C	*	*	0.13
	Stornoway...	29.54	38	WSW	5	bc	29.04	-54	35	32	+5	S	5	o	5	38	29	bc, bc, og	3.0	*	0.05
	Castlebay (Barra Id.)	29.57	39	SSE	4	C	28.91	-73	36	35	-2	E	6	rsq	6	41	33	C, crsq	0.6	*	0.04
	Malin Head	29.50	30	SE	3	b	28.71	-96	35	35	+5	ESE	8	rsq	5	35	30	bc, opm, sq	*	*	0.08
	Blacksod Pt.	29.35	37	ENE	4	og	28.55	-109	40	39	+5	SSW	4	o	3	40	31	op, bc, bcq	*	*	0.12
	Valencia...	29.06	40	E	8	ru	28.65	-93	50	49	+11	SSE	2	o	4	51	36	C, o, tu	?	*	0.27
	Roche's Point...	29.23	42	SE	9	r	28.71	-95	46	46	+6	S	1	r	6	51	40	C, r, f, r	*	*	0.85
	Birr Castle...	29.34	36	SSE	6	o	28.69	-103	41	40	+27	SSW	1	C	*	42	13	b, og, r	1.1	*	0.45
	Donaghadee...	29.63	37	SSE	3	C	28.88	-85	38	38	+14	ESE	8	r	6	39	21	bc, C, org	*	*	0.65
	Liverpool Obsy...	29.65	29	E	4	o	28.84	-92	34	33	+1	E	5	S	4	34	22	b, tm, o	4.6	*	0.10
	Holyhead...	29.58	34	SE	3	om	28.78	-94	41	41	+9	S	5	o	4	41	30	bc, om	*	*	0.72
	Pembroke (St. Ann's Hd.)	29.36	38	SE	7	r	28.77	-99	49	49	+18	SSW	4	f	6	50	31	bc, r, og, org	2.3	*	0.98
	Scilly (St. Mary's)	29.29	42	ESE	7	r	28.83	-79	40	38	+3	SSW	5	o	3	45	37	om, r	0.0	*	0.58
	Jersey (St. Aubins)	29.59	39	ESE	5	o	29.06	-70	54	53	+16	SW	5	o	4	54	36	C, ogm, org	0.2	*	0.49
	Portland Bill	29.55	43	ESE	8	ld	28.90	-85	51	51	+13	SSW	6	dm	7	52	38	C, d	2.2	*	0.74
	Dungeness...	29.75	39	ESE	4	C	29.01	-78	45	44	+18	SSE	8	r	5	45	27	C, og, r	3.7	*	0.78
GERMANY, & C.	Dover...	*	*	*	*	*	29.06	-77	45	44	+19	S	6	r	7	45	26	b, bc, o, r	5.4	*	0.71
	Wick...	29.62	27	S	2	C	29.16	-42	40	37	+13	S	6	om	4	40	24	-	*	*	-
	Nairn...	29.64	28	Z	0	b	29.12	-50	37	34	+10	SSE	3	C	1	37	18	b, bc	5.4	*	-
	Aberdeen...	29.71	31	SW	1	b	29.20	-44	38	36	+10	SSE	6	o	4	40	24	bc, og	4.5	*	-
	Leith...	29.71	31	SSW	1	b	29.01	-66	34	33	+5	E	5	S	*	36	24	bc, b, bc, o, S	*	*	0.06
	North Shields	29.76	27	SSW	3	C, m	29.04	-66	35	35	+8	SE	8	r	6	35	24	bc, om, r, S	4.7	*	0.40
	Spurn Head	29.79	33	SSE	3	b	28.92	-80	38	38	+9	SE	10	r	6	39	27	bc, m, og, r, S	*	*	0.44
	Yarmouth...	29.85	34	SE	3	bc	29.11	-63	39	38	+12	SE	8	rsq	6	39	27	bc, rsq	6.4	*	0.50
	Clacton-on-Sea	29.81	37	E	3	b	29.05	-73	41	41	+14	SE	7	o	6	41	25	bc, og, r	5.6	*	0.36
	Nottingham	29.75	23	ESE	3	o	28.94	-84	36	36	+16	ESE	5	r	*	36	14	bc, f, b, o, S	0.0	*	0.75
FRANCE.	Bath...	29.60	35	NW	1	m	28.88	-91	52	51	+32	SW	3	o	*	52	20	-	3.5	*	0.84
	Oxford	29.67	35	ESE	4	o	28.91	-94	45	45	+20	SSE	4	adm	*	45	23	bc, m, C, o, S, r, d	*	*	0.36
	London (St. James's PK)	29.77	35	SE	2	bm	28.98	-82	44	43	+17	SSE	4	od	*	44	25	gf, b, m, o, S, r	0.9	*	0.22
	The Scaw (Skagen)	29.67	33	WNW	5	b	29.85	+45	33	32	+5	SW	3	b	1	34	25	*	*	*	0.04
	Fanö...	29.34	30	NW	1	b	29.81	+32	25	24	-3	SE	5	o	*	34	25	*	*	*	0.12
	Cuxhaven...	29.84	33	W	3	S	29.82	+25	29	88	-3	SE	4	o	*	34	23	*	*	*	0.24
GERMANY, & C.	The Helder	29.91	33	Z	0	b	29.45	-27	33	31	-5	SE	7	o	2	39	27	*	*	*	-
	Brussels...	*	*	*	*	*	29.36	-46	39	39	+12	SE	8	r	*	40	26	*	*	*	0.24
	Berlin...	29.96	32	Z	0	b	30.02	+28	25	87	-3	SE	2	b	*	36	23	*	*	*	-
	Frankfurt...	30.01	27	NE	2	m	29.76	-08	31	96	+5	NE	3	r	*	34	25	*	*	*	0.04
	Munich...	30.06	29	Z	0	o	29.39	+07	26	100	0	E	4	o	*	30	27	*	*	*	0.04
	C. Gris Nez	29.84	33	E	3	bc	29.10	-70	44	42	+10	SSE	6	r	6	34	30	*	*	*	0.51
FRANCE.	La Hève	29.67	34	E	4	o	?	?	54	50	+22	S	6	o	3	?	30	*	*	*	0.43
	Brest...	29.38	43	SE	6	r	29.04	-62	52	52	+14	SSW	4	m	6	45	38	*	*	*	0.59
	Lorient	?	44	SE	5	r	?	?	54	54	+18	S	5	r	6	54	36	*	*	*	0.55
	Rochefort	29.62	51	SE	3	r	29.30	-34	57	53	+16	S	4	r	1	?	?	*	*	*	0.12
	Biarritz	29.68	66	S	5	o	29.41	-30	68	67	+9	S	6	o	1	68	59	*	*	*	-
	Paris	29.80	33	E	3	b	29.33	-49	47	46	+20	S	3	o	*	39	27	*	*	*	0.24
SPANISH PENIN.	Belfort...	29.96	30	ENE	4	f	29.78	-05	38	37	+8	NE	4	r	*	38	30	*	*	*	0.12
	Lyons	29.89	39	W	1	b	29.67	-15	57	49	+21	S	7	o	*	44	36	*	*	*	0.04
	Nice	29.82	50	Z	0	b	30.00	+43	48	44	-3	E	1	o	4	59	45	*	*	*	0.04
	Perpignan	29.81	50	Z	0	b	29.73	-06	49	49	+3	SW	1	o	*	61	46	*	*	*	-
	Sanguinaire																				
	Corunna																				
SPANISH PENIN.	Lisbon																				
	Azores (P. Delgada)																				
SPANISH PENIN.	Horta	28.79	59	WSW	5	o	28.94	+10	59	56	+3	W	5	r	5	66	55	*	*	*	0.32

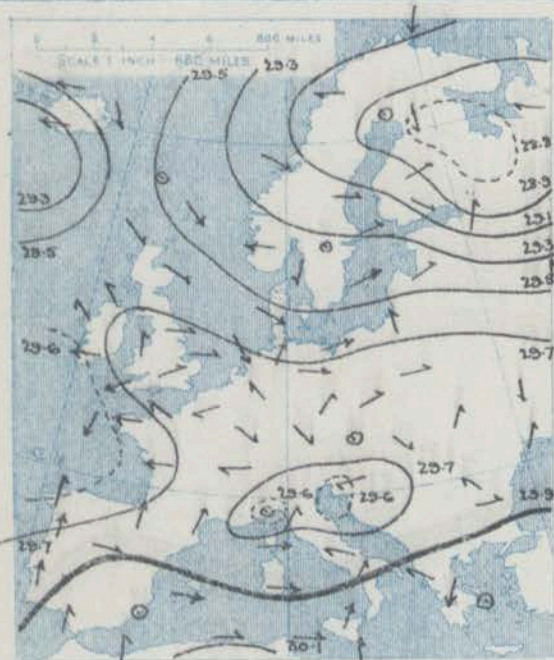


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

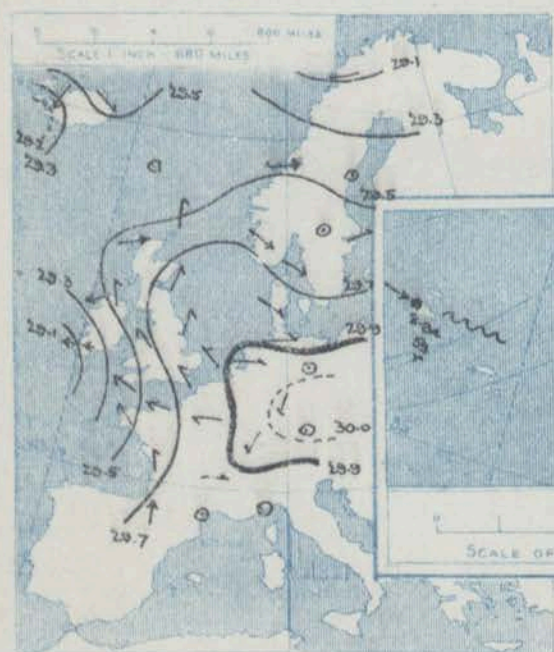
Wednesday,

WEATHER 22<sup>nd</sup> Dec.

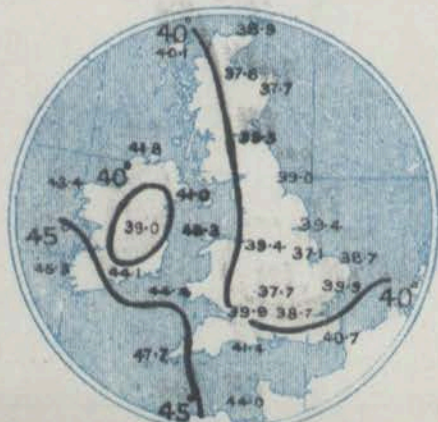
7 A.M. YESTERDAY.



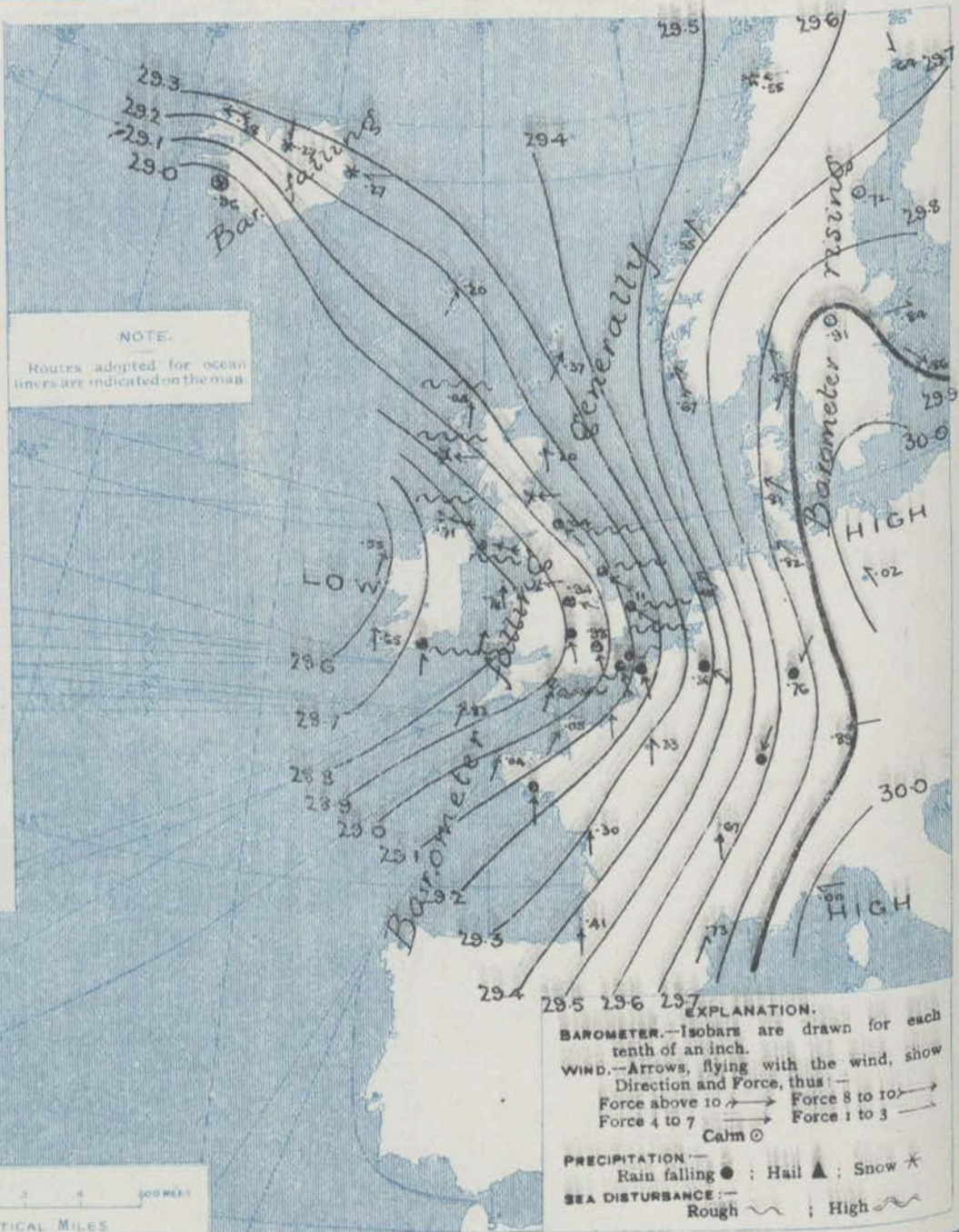
6 P.M. YESTERDAY



AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE MONTH OF DECEMBER.  
(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

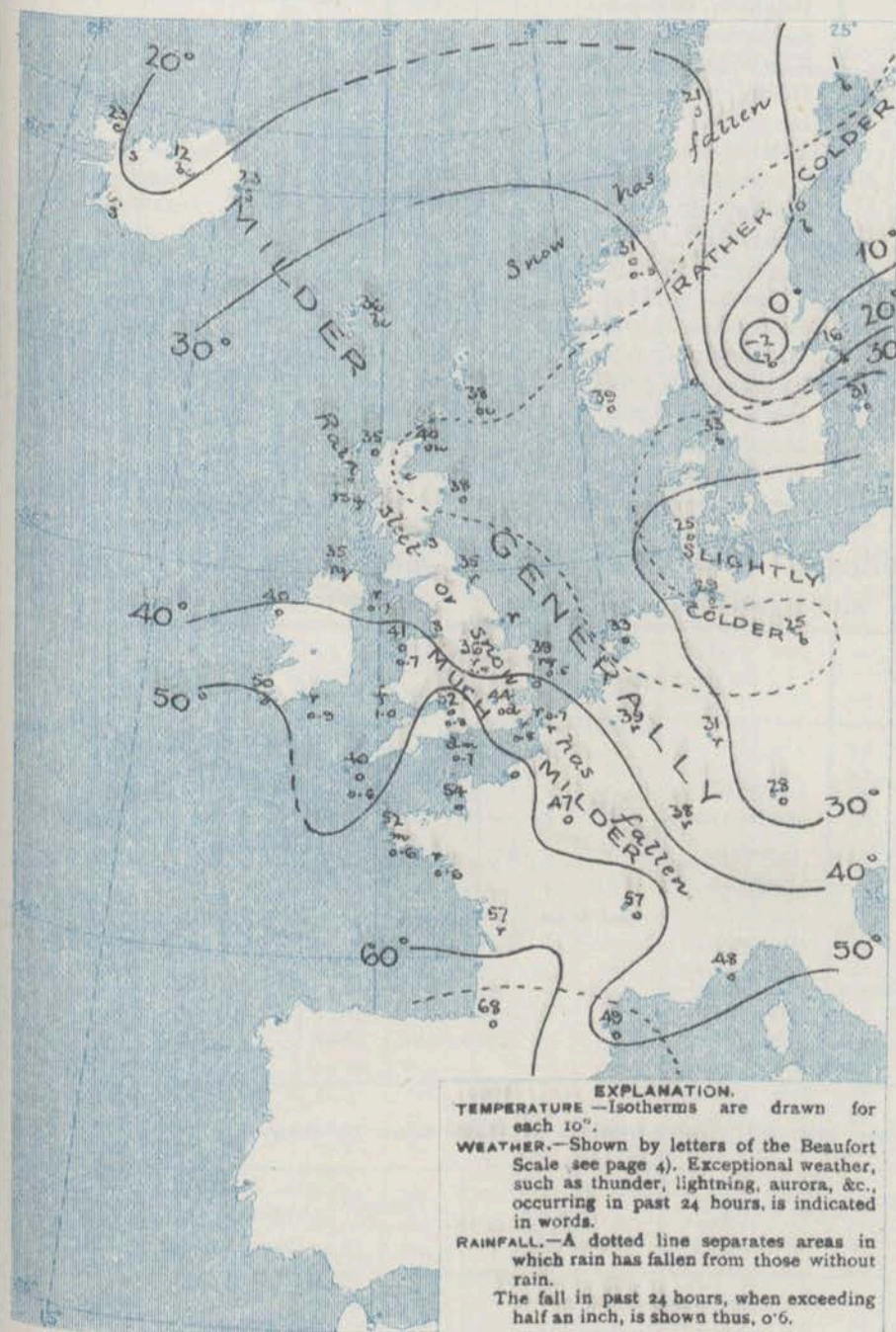
A deep depression now extends from the Atlantic over nearly the whole of western Europe, and the barometer continues to fall generally, the readings in the west of Ireland being below 28.6 ins. The highest pressures, 30.0 ins. generally, are reported over eastern Germany. The barometric gradient is steep, and very steep over the Netherlands and the North Sea.

The wind is S. by or S.W. by over France and the southern parts of the United Kingdom, and varies considerably in strength. S.E. by gales are blowing on our east coasts and also in the north of Ireland, and strong winds from the same quarter are reported in Scotland. The extension of the S. by current of air from France has resulted in a rapid rise of temperature, amounting since yesterday to 20° at Paris, 27° at Birr Castle, and 32° at Bath. At some of our southern stations the thermometer is now slightly above 50°, in the west of France it is above 55°, and at Biarritz it is as high as 68°. Over the northern parts of the United Kingdom the readings are below 40°. Rain is falling over a large portion of the United Kingdom and the neighbouring parts of the Continent, and snow at some of our northern stations. Snow is also falling in Iceland and Finmark, in Sweden the weather is fine and bright. The sea is high in the eastern part of the Channel, and rough on nearly all other coasts.



# CHARTS 22<sup>nd</sup> December, 1909.

## 2 TEMPERATURE AND WEATHER AT 7 A.M TO DAY



### NOTES ON YESTERDAY'S WEATHER

Over the northern, eastern and central parts of the United Kingdom the maximum temperatures recorded yesterday were mostly below 35°, and in some few places the thermometer did not rise above the freezing point. Over Great Britain the amount of bright sunshine was large, more than 6 hours at some of our east coast stations. Considerable amounts of rain and snow have fallen in England and Ireland, the largest measurements reported being 1.0 inch at Pembroke, 0.9 inch at Roche's Point, and 0.8 inch at Bath. Sunar halos were seen last night at several English stations.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The depression in the west will probably continue to spread eastwards, but the centre of the disturbance will remain, for the present, off the Irish coasts. The wind will increase to a gale from the South-Eastward in Scotland, and strong, squally breezes are probable over the United Kingdom generally. The mild current of air which has spread over from southern Europe will shortly extend to our more northern districts.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { a } S. & S.E. winds, increasing to a gale; unsettled, some snow, followed by cold rain. Milder.
- 1 { b }
- 2 { a } S. & S.E. gales, moderating gradually later; unsettled, rain at times. Milder.
- 3 { b }
- 4 { a } S. & S.E. winds, strong at times; mild, unsettled, occasional rain.
- 5 { b }
- 6 { a } Same as Nos. 0. and 1.
- 7 { b }
- 8 { a } S. & S.W. winds, strong in places; mild, unsettled, occasional rain.
- 9 { b }
- 10 { a } Same as No. 8.
- 11 { b }

### II WESTERN CHANNEL AND BAY

Strong S. & S.W. winds and a rough sea; mild, changeable, occasional rain.

### FORECAST DISTRICTS.

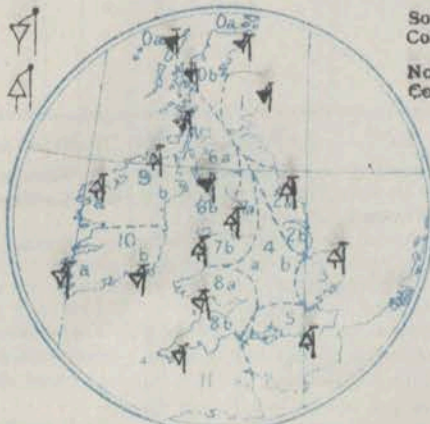
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

Signals hoisted this morning.

South Cone.  
North Cone.

South Cone.  
North Cone.





**TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.**

STATIONS.	TEMPERATURE F.		Weather	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	39	24	bc. b. bc.	4.0	-	Worthing, to 6 p.m. ...	40	24	m. c. o.	4.5	-
Dublin (City), to 4 p.m.	37	20	bc. c. o. q.	-	-	Brighton, to 6 p.m. ...	39	25	"	4.4	-
Rossall Beach, to 6 p.m.	35	15	cs. c.	-	-	Seaford, to 6 p.m. ...	38	24	b. c. o.	4.5	-
Blackpool, to 9 p.m. ...	35	14	o. m. o.	0.0	0.07	Eastbourne, to 6 p.m. ...	40	25	"	4.5	-
Southport, to 9 p.m. ...	24	18	bf. c. m. o.	1.5	-	Bexhill-on-Sea, to 9 p.m.	39	27	"	4.2	-
Rhyl, to 6 p.m. ...	38	21	bc. c. b.	5.2	-	Hastings ...	"	"	"	4.8	-
Colwyn Bay, to 6 p.m. ...	36	29	s. b. bc.	4.5	-	Folkestone, to 6 p.m. ...	39	27	b. bc. o.	5.2	-
Llandudno, to 9 p.m. ...	36	26	m. b. bc. c.	3.9	-	Ramsgate, to 6 p.m. ...	"	"	"	5.5	-
Bettws-y-Coed, to 6 p.m.	32	19	b.	3.8	-	Margate, to 6 p.m. ...	37	27	b. o.	4.4	-
Towyn, to 6 p.m. ...	35	25	b. o.	2.9	-	Felixstowe, to 6 p.m. ...	36	25	"	6.1	-
Aberystwyth, to 6 p.m. ...	40	29	"	2.5	-	Lowestoft, to 6 p.m. ...	35	25	bc. b.	6.3	-
Plymouth, to 9 p.m. ...	42	26	bc. o. o. r.	0.7	0.05	Skegness, to 6 p.m. ...	33	19	b.	5.4	-
Paignton, to 6 p.m. ...	43	25	"	0.2	0.08	Scarborough, to 9 p.m. ...	34	25	bc.	5.6	-
Torquay, to 6 p.m. ...	43	27	"	0.2	-	Harrogate, to 6 p.m. ...	37	18	b.	5.0	-
Weymouth, to 6 p.m. ...	43	26	bc. c. o.	2.2	0.01	Buxton, to 6 p.m. ...	26	15	osp. b. bf. c.	2.0	0.01
Bournemouth, to 6 p.m. ...	41	22	"	3.0	-	Darwen, to 9 p.m. ...	30	22	bc. ou	2.8	-
Southsea, to 6 p.m. ...	40	24	"	3.0	-	Manchester, to 9 p.m. ...	"	"	"	"	"
Bognor, to 6 p.m. ...	41	25	b. bc. o.	4.4	-	Birmingham, to 9 p.m. ...	35	22	b. c. o.	2.7	-

**TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.**

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	Not recd.			Ins.	Utrecht ...	37	28	bc. c.	Ins.
Marseilles ...	63	50	o. o.	0.04	Groningen ...	36	27	bc. c.	0.04
Malta ...	66	52	bc.	-	Zurich ...	"	"	s. o.	0.87
Algiers ...	79	61	bc. b.	-	Geneva ...	"	"	r. o.	1.06
Tunis ...	72	37	b. c.	-	Lugano ...	"	"	o. o.	0.08
Palermo ...	67	62	o. o.	-	Berne ...	41		"	Measured 7.00 a.m. 0.20
Naples ...	59	57	o. o.	0.04	Coire ...	43		bc.	0.04
Brindisi ...	57	44	bc. c.	-	Castasegna ...	37		r.	0.12
Rome ...	61	57	o. o.	0.12	Davos ...	43		bc.	-
Vienna ...	41	34	o. o.	-					
St. Petersburg ...	36	30	o. o.	0.08					

**WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.**

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Dis- turb- ance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Direc.	Force.		Air.		Sea.			Lat.	Long.		Direc.	Force.	
							Dry Bulb.	Wet Bulb.									
	°	°	Ins.				°	°	°			°	°	Ins.			

**NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—**

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.51 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky halfclouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; i. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.
- \* Information for these columns is not usually received.
- † The figures in the "wet bulb" column represent the relative humidity.
- ‡ Received too late for insertion in Charts.

**TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.**

METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)

ICELAND & FAEROE.

SCANDINAVIA.

BRITISH ISLANDS.

GERMANY, & C.

FRANCE.

SPANISH PERIN.



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

Thursday  
23<sup>rd</sup> December, 1909.

STATIONS.	YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.				
	BAROM.		TEMP.		WIND.	BAROMETER.		TEMPERATURE.			WIND.		Sea (0 to 9).	TEMP.		Weather.	Sun-shine.	Rainfall.		
	At 32° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Direc.	Force (0 to 12).		At 32° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12).		Max.	Min.					
SCANDINAVIA.																				
Haparanda...	29.99	-15	N	2	b	30.13	+49	-18	-18	-19	NNE	2	b	*	16	-18	*	*		
Hernösand...	29.82	7	Z	0	c	29.73	+01	28	28	+18	SSE	4	o	*	28	5	*	*		
Stockholm...	29.88	19	SSE	2	bc	29.45	-39	33	33	+17	ESE	8	o	*	33	16	*	*		
Wisby...	29.83	26	S	4	o	29.38	-48	31	29	0	ENE	6	s	*	32	21	*	0.16		
Karlstad...	29.78	19	NE	2	o	29.30	-61	30	30	+32	NE	6	s	*	31	21	*	0.16		
Færder (X'ania Fjord)	29.62	34	SE	5	o	29.17	-63	32	32	-2	E	5	s	3	34	28	*	-		
Bodö...	29.74	19	E	4	b	29.61	+06	21	18	0	E	6	b	2	21	16	*	-		
Christiansund...	29.47	33	ESE	4	b	28.97	-58	36	33	+5	SSE	7	c	3	37	28	*	0.28		
Skudesnaes...	29.17	37	ESE	9	o	28.85	-82	39	36	0	E	8	o	5	39	36	*	0.28		
ICELAND & FAEROE.																				
Isafjord...	29.20	21	NE	9	s	29.15	-13	16	*	-7	NE	9	s	*	*	*	*	*		
Reykjavik...	28.86	22	Z	0	o	28.77	-19	28	*	+4	N	8	bc	*	*	*	*	*		
Seydisfjord...	28.96	33	ENE	4	s	28.82	-45	33	*	+10	E	4	s	*	*	*	*	*		
Thorshavn...	28.94	37	SSE	4	r	28.53	-67	37	*	+1	Z	0	o	*	*	*	*	*		
BRITISH ISLANDS.																				
Sumburgh Head	28.85	37	SE	7	r	28.63	-74	40	40	+2	SSW	1	bc	5	43	29	*	0.14		
Stornoway...	28.66	40	SE	2	o	28.66	-38	39	39	+4	SW	2	r	2	43	34	odp, up	0.0		
Castlebay (Barra Id.)	28.60	44	SE	4	d	28.68	-23	44	41	+8	WNW	4	o	4	48	36	odp, up	0.0		
Malin Head	28.59	41	SE	1	c	28.72	+01	45	45	+10	W	4	opm	2	45	35	odm, up	0.0		
Blacksod Pt.	28.60	48	SSW	4	o	28.87	+32	45	42	+5	SW	3	o	2	48	38	odm, up	0.0		
Valencia...	28.68	49	S	2	o	28.84	+19	46	45	-4	NNW	3	r	4	52	46	odm, up	0.1		
Roche's Point	28.73	48	SW	2	o	28.84	+13	48	48	+2	SW	2	r	5	50	46	odm, up	0.0		
Birr Castle	28.67	46	S	1	o	28.84	+15	46	45	+5	Z	0	or	*	47	40	odm, up	0.0		
Donaghadee	28.68	43	WSW	2	m	28.77	-11	44	44	+6	WSW	1	o	1	47	38	odm, up	0.0		
Liverpool Onsy...	28.76	42	SE	3	bc	28.85	+01	43	43	+9	SE	2	o	2	47	32	odm, up	0.2		
Holyhead...	28.71	49	SW	4	dun	28.86	+08	49	48	+8	SW	3	c	2	49	41	odm, up	0.74		
Pembroke (St. Ann's Hd.)	28.77	49	SSW	5	c	28.86	+09	48	48	-1	SSW	3	cgf	5	51	47	odm, up	0.0		
Scilly (St. Mary's)	28.84	50	SW	5	o	28.92	+09	49	46	+9	SW	4	o	4	54	40	odm, up	2.0		
Jersey (St. Aubins)	29.04	51	SSW	3	o	29.14	+09	52	51	-2	S	4	o	3	56	49	odm, up	0.0		
Portland Bill	28.93	50	SW	4	odp	28.99	+09	50	50	-1	SSW	6	r	6	51	49	odm, up	0.0		
Dungeness...	29.00	52	S	3	r	29.11	+10	50	50	+5	SW	4	o	4	52	44	odm, up	0.0		
Dover...	29.16	50	SW	3	o	29.16	+10	50	49	+5	SSW	3	o	4	51	40	odm, up	0.0		
Wick...	28.66	40	S	5	r	28.64	-52	41	41	+1	S	2	o	6	43	40	odm, up	0.0		
Nairn...	28.66	34	ESE	1	o	28.66	-46	33	32	-4	Z	0	c	1	38	29	odm, up	0.0		
Aberdeen...	28.68	39	S	1	c	28.74	-46	40	39	+2	SSW	1	o	3	42	33	odm, up	0.0		
Leith...	28.71	36	E	1	r	28.73	-28	43	42	+9	SSW	1	of	*	43	34	odm, up	0.21		
North Shields	28.73	37	SSW	3	o	28.87	-17	43	43	+8	WSW	2	c	4	43	33	odm, up	0.52		
Spurn Head	28.86	44	SSW	5	o	28.95	+03	44	43	+6	SW	5	c	4	44	37	odm, up	0.18		
Yarmouth...	28.97	48	SSW	3	odp	29.02	-09	48	48	+9	SSW	2	bc	4	49	38	odp, up	0.0		
Clacton-on-Sea	29.00	44	SSE	3	o	29.09	+04	44	44	+3	SSE	3	o	3	47	40	odm, up	0.0		
Nottingham	28.85	49	SW	3	o	28.95	+01	49	48	+13	SSW	3	o	*	50	35	odm, up	0.0		
Bath...	28.91	52	SW	3	o	28.97	+09	52	51	0	SW	6	r	*	54	51	odm, up	0.0		
Oxford	28.93	50	S	4	c	29.02	+11	50	49	+5	S	2	o	*	52	45	odm, up	0.0		
London (St. James's PK)	28.98	54	SW	3	oe	29.05	+07	52	50	+8	SSW	4	o	*	55	43	odm, up	0.0		
GERMANY, & C.																				
The Scaw (Skagen)	29.48	34	SE	8	r	29.03	-82	36	36	+3	SE	6	o	2	37	32	odm, up	0.08		
Fanö...	29.10	33	SE	6	r	29.00	-81	39	38	+14	SW	4	f	*	39	23	odm, up	0.04		
Cuxhaven...	29.32	32	SE	8	r	29.09	-73	44	44	+15	W	3	f	*	45	29	odm, up	0.87		
The Helder	29.08	47	SSW	4	r	29.10	-35	43	43	+10	SW	3	m	3	50	32	odm, up	0.71		
Brussels...	29.23	52	S	5	r	29.23	-13	52	51	+13	WSW	3	o	*	55	39	odm, up	1.22		
Berlin...	29.54	32	SE	3	r	29.29	-73	41	44	+16	SW	3	r	*	41	25	odm, up	0.43		
Frankfurt...	29.44	37	NE	1	o	29.32	-44	39	47	+8	NW	1	f	*	39	25	odm, up	0.32		
Munich...	29.69	35	S	1	o	29.56	-33	37	44	+9	SSE	1	o	*	43	27	odm, up	0.01		
FRANCE.																				
C. Gris Nez	29.05	52	S	5	o	29.19	+09	46	46	+2	SSW	5	c	4	54	44	odm, up	0.32		
La Hève	29.17	52	S	6	r	29.27	?	50	48	-4	S	4	bc	4	57	45	odm, up	0.20		
Brest...	29.04	52	SSW	4	c	29.15	+11	52	51	0	SW	5	f	5	54	50	odm, up	0.04		
Lorient	29.04	52	S	5	f	29.15	?	52	52	-2	SW	5	o	6	55	?	odm, up	0.04		
Rochefort	29.21	56	SSW	6	o	29.43	+13	52	51	-5	S	4	o	*	61	39	odm, up	0.43		
Biarritz	29.31	72	SSW	7	o	29.53	+12	63	62	-5	S	7	o	4	73	59	odm, up	0.01		
Paris...	29.25	59	S	5	o	29.35	+02	53	51	+6	SSW	4	o	*	60	47	odm, up	0.16		
Belfort...	29.53	44	WSW	4	o	29.65	-23	53	50	+15	WSW	6	o	1	62	54	odm, up	0.04		
Lyons...	29.54	60	S	4	o	29.59	-08	57	51	0	SW	5	bc	*	62	54	odm, up	0.04		
Nice...	30.00	49	Z	0	c	29.82	-18	53	50	+5	Z	0	o	?	54	46	odm, up	0.04		
Perpignan	29.58	63	S	3	o	29.60	-13	55	51	+6	NE	1	b	*	76	49	odm, up	0.01		
Sanguinaire	30.05	55	SE	3	o	29.90	-13	63	55	0	SE	4	o	3	76	54	odm, up	0.01		
SPANISH PENIN.																				
Corunna	29.21	59	W	4	o	29.31	+37	58	54	-1	W	5	o	5	66	55	odm, up	1.10		



SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

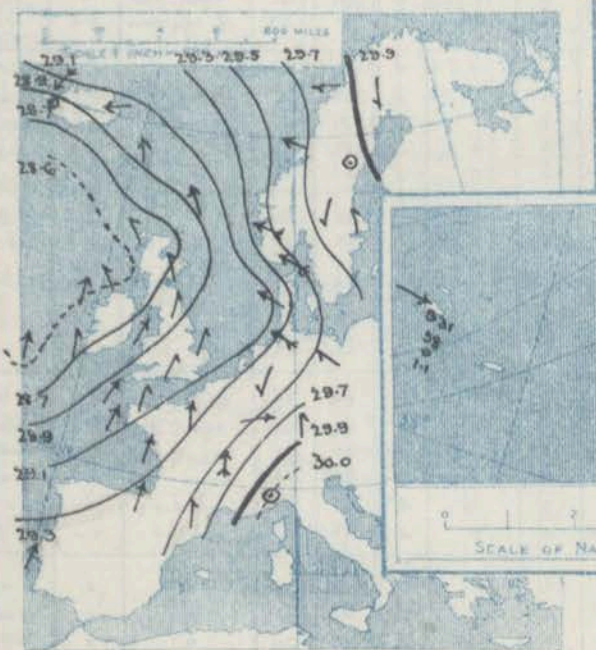
Thursday,

WEATHER 23<sup>rd</sup> Dec<sup>r</sup>

7 A.M. YESTERDAY.

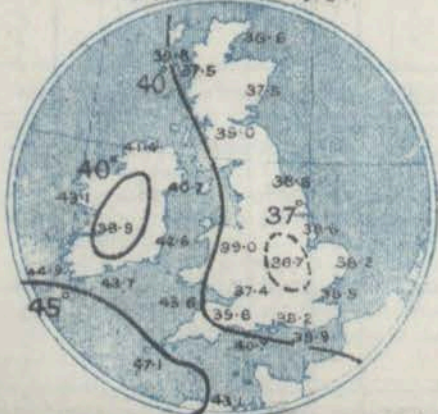


6 P.M. YESTERDAY

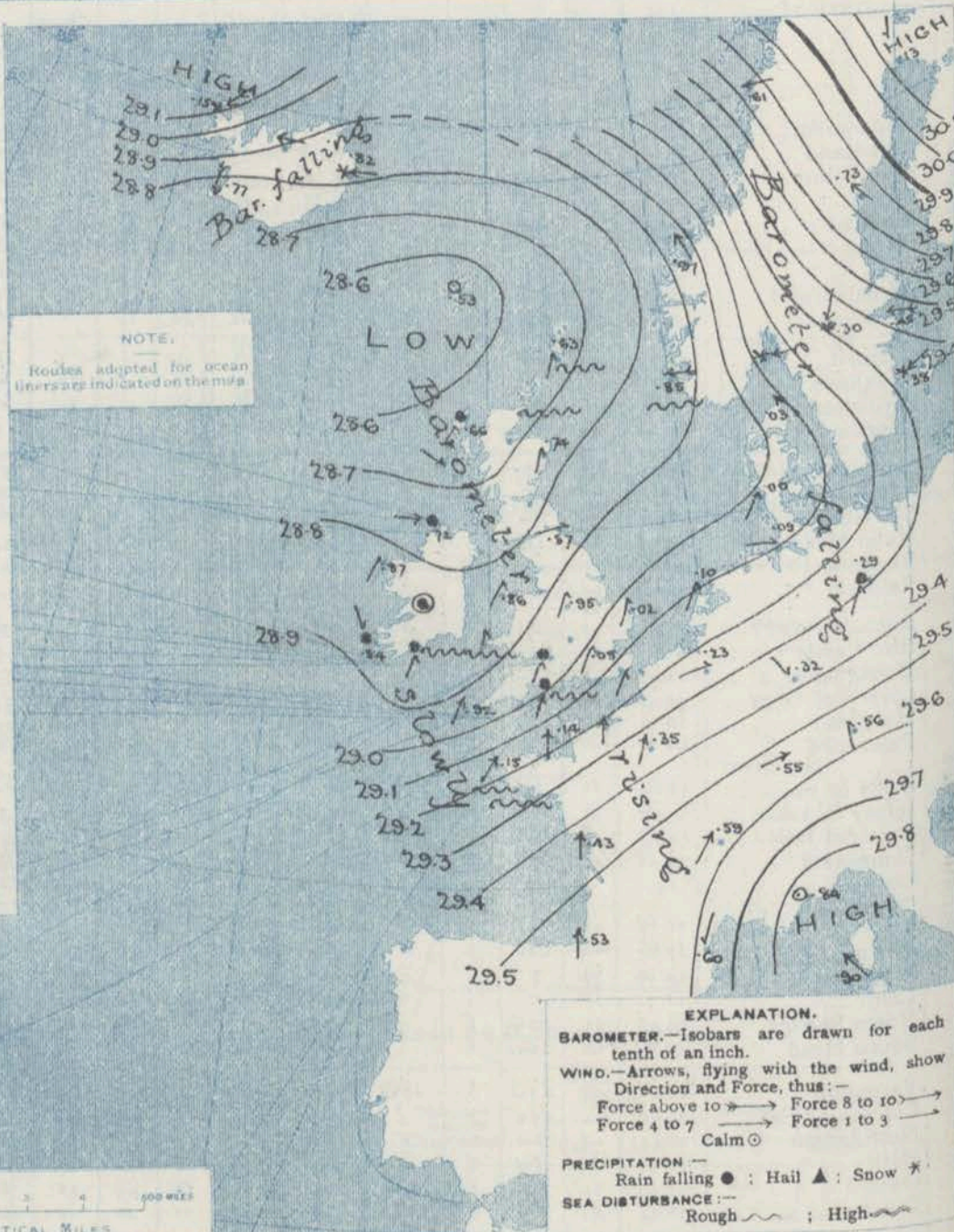


AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
DECEMBER - JANUARY.

(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



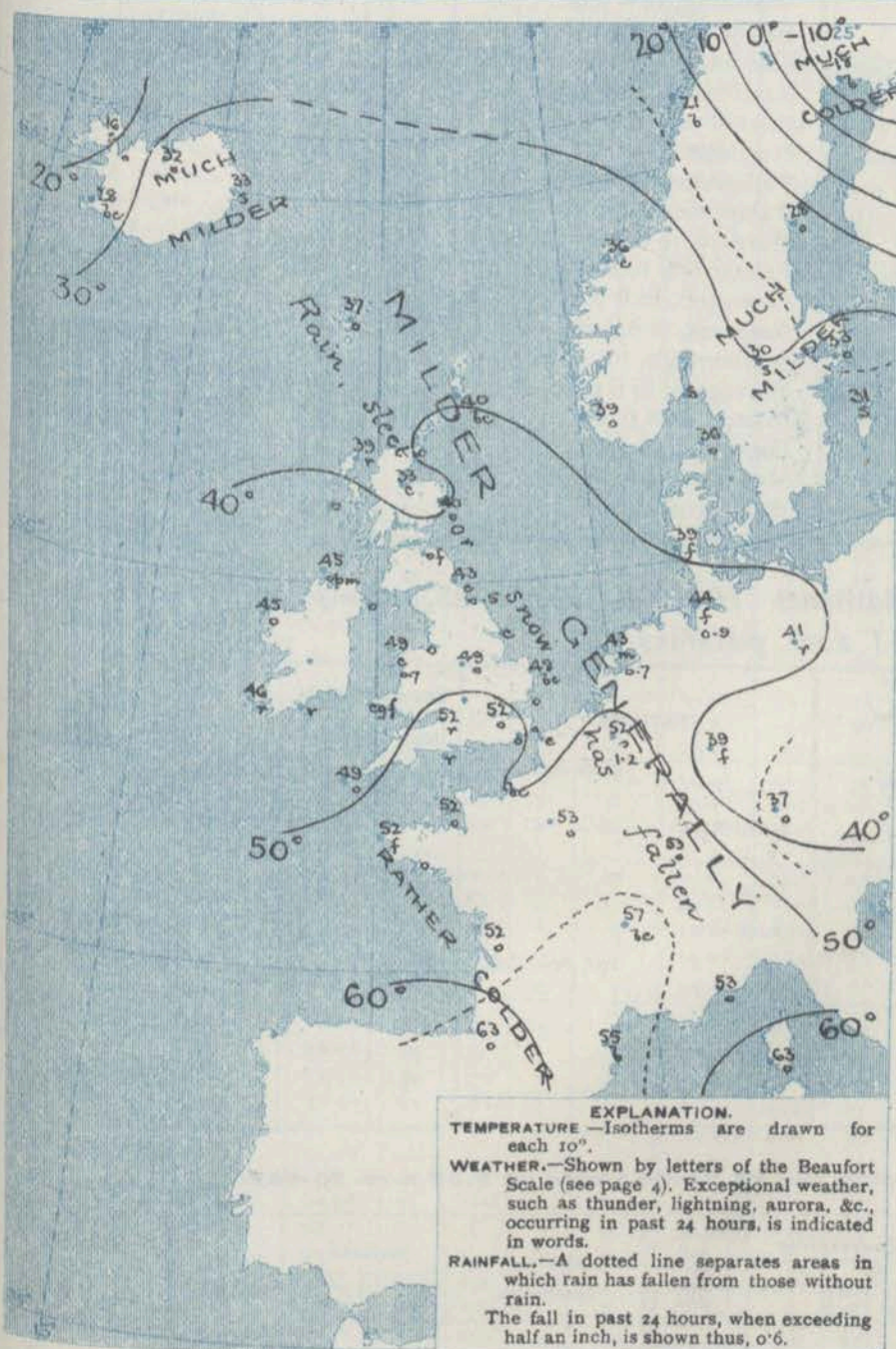
NOTES ON THE GENERAL SITUATION AT 7 A.M.

The depression which lay off our western coast yesterday has moved northward, and is now centred a little to the southward of the Faeröe. The barometer is rising over the whole of the United Kingdom and France, and the barometric gradient has become less steep. In the northern parts of the Continent the mercury is still falling, and over Scandinavia the gradient has increased very considerably.

The wind is light to fresh from the S.W. or S.W.W. over the greater part of the United Kingdom, France and the Netherlands, but is shifting to the N.W. in the west of Ireland. Gales are blowing in the south of Scandinavia, and N.E. to E. gales in Western Ireland. Temperature has fallen somewhat in the west of France, but has risen in nearly all other parts of our area of observation—rapidly in the south of Sweden. In the north of England the thermometer stands at or slightly above 50°, but at most of our northern stations it is below 45°, and in the north of Scotland it is below 40°. The Continental values range from 63° at Biarritz, and 57° at Lyons to 30° and less over Sweden and the north of Norway, and to -18° at Haparanda. The weather remains in a very unsettled state generally, with rain at several of our own western and northern stations, and snow in the south of Scandinavia, as well as in Eastern Ireland. The sea is rough or rather rough on several of the more exposed parts of our own and the French coasts.



## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



**EXPLANATION.**  
**TEMPERATURE.**—Isotherms are drawn for each 10°.  
**WEATHER.**—Shown by letters of the Beaufort Scale (see page 4). Exceptional weather, such as thunder, lightning, aurora, &c., occurring in past 24 hours, is indicated in words.  
**RAINFALL.**—A dotted line separates areas in which rain has fallen from those without rain.  
 The fall in past 24 hours, when exceeding half an inch, is shown thus, 0.6.

### NOTES ON YESTERDAY'S WEATHER

During yesterday the thermometer rose to between 50° and 55° in most parts of England, Wales and the south of Ireland; over North Britain the maximum readings were below 45°. Trifling amounts of bright sunshine were recorded at a few of our western stations, but over the country generally the day was continuously overcast. Sleet or snow was experienced over North Britain, and rain in other districts. Wireless reports show that between the Irish wastes and the 17th meridian ships experienced yesterday light to fresh S. winds, and fine weather; further to the westward the wind was strong from the N.W., and the sky overcast.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The depression in the north will continue to disperse, but small secondary disturbances are likely to pass eastwards across the United Kingdom, and to cause showery weather in all districts. On our western coasts the wind will probably shift to the N.W. or N., and over England and Ireland generally the thermometer will fall rather decidedly.

## FORECASTS

For the 24 hours commencing at  
**NOON TO-DAY.**

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { a } S.W. to W. winds, light; changeable,  
       b } some showers; rather cold
- 1 { a }  
       b }
- 2 { a }  
       b }
- 3 { S.W. to W. winds, moderate or fresh;  
       changeable, some showers. Mild to-day,  
       cooler to-morrow.
- 4 { a }  
       b }
- 5 { S.W. to W. winds, strong on coast;  
       changeable, some showers. Mild to-day,  
       cooler to-morrow.
- 6 { a } W. to N.W. winds, moderate;  
       b } changeable, some showers. Cooler.
- 7 { a } S.W. to N.W. winds, moderate;  
       b } changeable, some showers. Cooler.
- 8 { a }  
       b }
- 9 { a }  
       b }
- 10 { a } Same as No. 6.  
       b }

### II WESTERN CHANNEL AND BAY.

Strong S. and S.W. winds, shifting later to W. or N.W. and moderating; sea rough, changeable, some showers. Becoming cooler.

### FORECAST DISTRICTS.

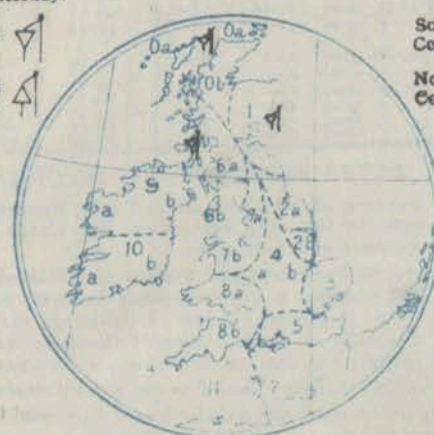
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

South Cone.  
 North Cone.

Signals hoisted this morning.

South Cone.  
 North Cone.





# DAILY WEATHER REPORT.

Thursday, 23rd December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	40	30	o	0.0	-	Werthing, to 6 p.m. ...	51	40	r. o	0.0	1.04
Dublin (City), to 4 p.m.						Brighton, to 6 p.m. ...	50	26	"	0.0	1.03
Rossall Beach, to 6 p.m.						Seaford, to 6 p.m. ...	50	36	r. o	0.0	0.74
Blackpool, to 9 p.m. ...	40	21	shy. o. gr	0.0	0.95	Eastbourne, to 6 p.m. ...	52	37	"	0.0	0.96
Southport, to 9 p.m. ...	41	30	o shy. o	0.0	0.88	Bexhill-on-Sea, to 9 p.m.	50	30	-	0.0	0.73
Rhyl, to 6 p.m. ...	47	22	bc. c. s. r. o	0.3	0.79	Hastings ...	"	"	"	"	0.62
Colwyn Bay, to 6 p.m. ...	51	29	p. r	1.2	0.72	Folkestone, to 6 p.m. ...	51	34	o. t. o	0.0	0.87
Llandudno, to 9 p.m. ...	49	33	bc. c. s. op o	0.0	0.37	Ramsgate, to 6 p.m. ...	"	"	"	0.0	0.60
Bettws-y-Coed, to 6 p.m.						Margate, to 6 p.m. ...	52	29	r. o	0.0	0.75
Towyn, to 6 p.m. ...						Felixstowe, to 6 p.m. ...	44	25	"	0.0	"
Aberystwyth, to 6 p.m. ...	52	47	"	0.0	0.34	Lowestoft, to 6 p.m. ...				0.0	0.11
Plymouth, to 9 p.m. ...						Skegness, to 6 p.m. ...	46	36		0.0	"
Paignton, to 6 p.m. ...	54	40		0.0	2.10	Scarborough, to p.m. ...	40	27		0.0	0.82
Torquay, to 6 p.m. ...	53	38	"	0.0	2.03	Harrogate, to 6 p.m. ...	40	17		0.0	0.31
Weymouth, to 6 p.m. ...	52	38	f. e	0.0	0.84	Buxton, to 6 p.m. ...	43	25	c. os. o. of	0.0	0.61
Bournemouth, to 6 p.m. ...	53	23		0.0	1.39	Darwen, to 9 p.m. ...	42	25	o r s h. o r	0.0	"
Southsea, to 6 p.m. ...	53	29		0.0	1.32	Manchester, to 9 p.m. ...					
Bognor, to 6 p.m. ...						Birmingham, to 9 p.m. ...					

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	"	"		Ins.	Utrecht ...	"	"		Ins.
Marseilles ...	Information not received				Groningen ...	Information not received			
Malta ...					Zurich ...				
Aigiers ...					Geneva ...				
Tunis ...					Lugano ...				
Palermo ...									
Naples ...					Berne ...	34		1.30 p.m.	Measured 7.30 a.m. 0.08
Brindisi ...					Coire ...	39		"	0.04
Rome ...					Castasegna ...	43		"	0.83
Vienna ...					Davos ...	36		"	0.08
St. Petersburg ...									

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	
	Lat.	Long.		Direc.	Force.		Air.		Sea.			Lat.	Long.		Direc.	Force.		
							Dry Bulb.	Wet Bulb.										
St. Paul.....	Dec. 20. 4 a.m.	50 N.	29 W.	29.37	SE	1-3	.	.	.	.	Compania.....	Dec. 22. 4 a.m.	51 N.	14 W.	29.11	SSE	4-5	.
	" 7 a.m.	50 N.	30 W.	29.32	SE	1-3	bc	.	.	.		" 7 a.m.	51 N.	13 W.	29.11	S	1-3	.
Lusitania.....	Dec. 20. 4 a.m.	51 N.	20 W.	29.70	NE	4-5	.	.	.	.	{	Dec. 20. 4 a.m.	49 N.	25 W.	29.36	E	8-9	.
	" 7 a.m.	51 N.	21 W.	29.68	NNE	6-7	bc	.	.	.		" 7 a.m.	49 N.	25 W.	29.35	E	8-9	.
	" 3 p.m.	50 N.	17 W.	29.51	E	6-7	.	.	.	.		" 3 p.m.	49 N.	24 W.	29.26	E	8-9	.
	" 6 p.m.	50 N.	28 W.	29.41	ESE	6-7	c	.	.	.		" 6 p.m.	49 N.	23 W.	29.23	E	8-9	.
Mount Temple.....	Dec. 20. 4 a.m.	50 N.	25 W.	29.42	E	6-7	.	.	.	.	{	" 21. 4 a.m.	49 N.	22 W.	29.02	E	10-11	.
	" 7 a.m.	50 N.	26 W.	29.37	ESE	4-5	bc	.	.	.		" 7 a.m.	49 N.	22 W.	28.91	E	1-3	.
	" 3 p.m.	50 N.	28 W.	29.20	E	6-7	.	.	.	.		" 3 p.m.	49 N.	21 W.	28.69	E	4-5	.
	" 6 p.m.	50 N.	30 W.	29.16	E	6-7	c	.	.	.		" 6 p.m.	49 N.	21 W.	28.60	NNE	4-5	.
Lake Manitoba.....	Dec. 20. 4 a.m.	50 N.	29 W.	29.48	E	8-9	.	.	.	.	{	" 22. 4 a.m.	49 N.	18 W.	28.97	WSW	4-5	.
	" 7 a.m.	50 N.	28 W.	29.46	E	8-9	bc	.	.	.		" 7 a.m.	49 N.	18 W.	28.93	S	1-3	.
	" 3 p.m.	50 N.	28 W.	29.41	E	8-9	.	.	.	.		" 3 p.m.	49 N.	16 W.	28.53	SSW	4-5	.
	" 6 p.m.	50 N.	27 W.	29.37	E	8-9	c	.	.	.		" 6 p.m.	49 N.	15 W.	28.55	S	4-5	.
Vaderland.....	Dec. 20. 3 p.m.	50 N.	16 W.	29.59	E	6-7	.	.	.	.	{	Dec. 21. 4 a.m.	49 N.	26 W.	28.97	ENE	8-9	.
	" 6 p.m.	50 N.	17 W.	29.55	E	6-7	bc	.	.	.		" 7 a.m.	49 N.	25 W.	28.92	ENE	8-9	.
	" 7 a.m.	50 N.	21 W.	29.23	E	8-9	.	.	.	.		" 3 p.m.	49 N.	22 W.	28.66	ESE	1-3	.
	" 3 p.m.	50 N.	26 W.	28.07	E	8-9	.	.	.	.		" 6 p.m.	49 N.	21 W.	28.64	NE	4-5	.
	" 6 p.m.	50 N.	27 W.	28.85	NNE	8-9	.	.	.	.	" 22. 4 a.m.	49 N.	17 W.	28.54	S	4-5	.	
	" 21. 4 a.m.	50 N.	25 W.	29.12	E	8-9	.	.	.	.	" 7 a.m.	49 N.	16 W.	28.56	S	4-5	.	
	" 7 a.m.	50 N.	25 W.	29.08	E	8-9	o	.	.	.	" 3 p.m.	49 N.	13 W.	28.68	S	4-5	.	
	" 3 p.m.	50 N.	26 W.	28.07	E	8-9	.	.	.	.	" 6 p.m.	49 N.	12 W.	28.76	S	4-5	.	
	" 6 p.m.	50 N.	27 W.	28.85	NNE	8-9	.	.	.	.								



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

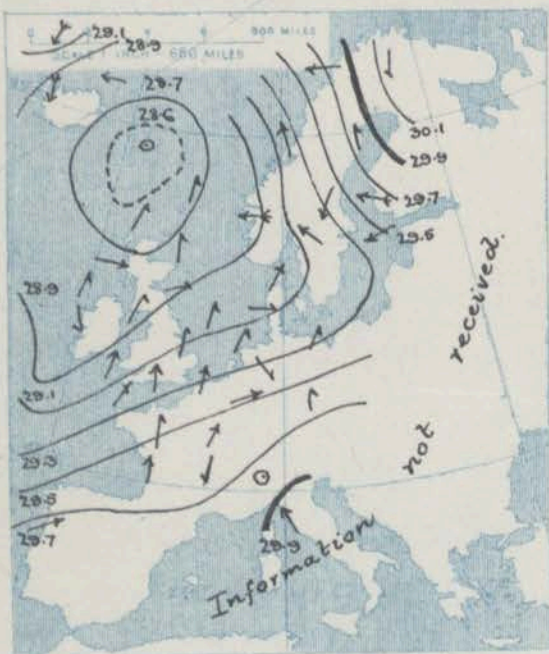
Friday  
24th December, 1909.

STATIONS.		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.				
		Barom.	Temp.	Wind.	Force	Weather.	Barometer.		Temperature.		Wind.		Force	Weather.	Sea	Temp.		Weather.	Sun-shine.	Rainfall.	
							At 32° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.				Force (0 to 19).	Max.				Min.
Ins.		Dry Bulb.	Direc.	Force (0 to 19).	Weather.	Ins.	Ins.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 19).	Weather.	Sea (0 to 9).	Max.	Min.	Weather.	Hours.	Ins.		
SCANDINAVIA.	Haparanda...	30.02	2	N	2	o	29.84	-2.9	7	7	+2.5	SE	4	o	*	37	-20	*	*	-	
	Hernösand...	29.53	26	SE	6	f	29.49	-2.4	27	25	-1	SE	6	f	*	28	7	*	*	0.20	
	Stockholm...	29.25	31	E	4	o	29.32	-1.3	31	31	-2	E	4	o	*	33	18	*	*	0.32	
	Wisby...	29.16	33	ESE	4	o	29.24	-1.4	34	33	+3	SE	4	r	*	34	21	*	*	0.39	
	Karlstad...	29.23	31	ENE	2	o	29.27	-0.3	31	31	+1	NE	2	o	*	34	21	*	*	0.24	
	Færder (X'ania Fjord)	29.14	34	ENE	3	o	29.16	-0.1	33	32	+1	NE	4	o	2	34	32	*	*	0.04	
	Bodö...	29.51	21	ESE	9	c	29.31	-3.0	22	20	+1	ESE	4	c	2	22	19	*	*	-	
ICELAND & FAEROE.	Christiansund...	28.97	39	SSE	2	o	29.01	+0.4	41	39	+5	SE	1	o	3	41	34	*	*	0.16	
	Skudesnaes...	28.99	41	NE	6	r	29.10	+2.5	38	37	-1	SSE	2	r	3	41	36	o. r	*	0.87	
	Isafjord...	29.20	15	NE	9	s	29.32	+1.7	19	*	+3	NE	7	o	*	*	*	*	*		
	Reykjavik...	28.80	27	N	9	o	29.05	+2.8	24	*	-4	N	8	bc	*	*	*	*	*		
BRITISH ISLANDS.	Seydisfjord...	28.75	30	E	4	o	28.73	-0.9	36	*	+3	ENE	5	s	*	*	*	*	*		
	Thorshavn...	28.67	40	WNW	5	c	28.70	+1.7	38	*	+1	W	8	c	*	*	*	*	*		
	Sumburgh Head	28.78	42	WNW	2	bc	29.03	+4.0	39	36	-1	WNW	5	bc	4	44	32	r. bc	*	0.11	
	Stornoway...	28.98	36	WSW	3	b	29.19	+5.3	36	34	-3	NW	4	bc	4	41	33	odp. c. bc. b	2.2	0.02	
	Castlebay (Barra Id.)	29.04	42	WNW	3	op	29.28	+6.0	38	36	-6	WNW	4	bc	3	45	36	op. c. bc. cp. b	1.7	0.04	
	Malin Head...	29.06	44	SW	5	ogm	29.35	+6.3	40	40	-5	SW	5	rm	5	45	39	ogm. ogm	*	-	
	Blacksod Pt.	29.17	42	W	3	c	29.47	+6.0	41	39	-4	NW	3	c	2	46	34	bc. o. op	*	0.10	
	Valencia...	29.29	44	NNW	1	c	29.54	+7.0	36	35	-10	E	1	bc	4	48	32	bc. c. bc	5.9	0.11	
	Roche's Point...	29.25	44	NW	3	bc	29.55	+7.1	36	35	-12	NNE	1	b	4	49	35	odp. c. bc. b	*	0.05	
	Birr Castle...	29.20	38	W	3	b	29.53	+6.9	33	30	-13	Z	0	b	*	46	31	r. o. b	0.1	0.10	
	Donaghadee...	29.06	42	WSW	3	o	29.42	+6.5	35	35	-9	W	3	b	2	44	33	cp. c. b	*	0.02	
	Liverpool Obsy...	29.06	42	WNW	3	o	29.46	+6.1	39	37	-4	WSW	4	b	3	48	38	bc. o. or	1.5	0.25	
	Holyhead...	29.07	45	NW	5	or	29.46	+6.0	41	40	-8	WNW	4	b	3	50	40	cm. or	*	0.24	
	Pembroke (St. Ann's Hd.)	29.11	45	NW	3	c	29.51	+6.5	44	41	-4	WNW	3	b	5	50	43	ogm. ogm	0.0	0.03	
	Scilly (St. Mary's)	29.24	49	WNW	5	op	29.52	+6.0	49	46	0	WSW	1	o	4	53	47	o. op	0.0	0.06	
	Jersey (St. Aubins)	29.29	52	SW	4	c	29.53	+3.9	47	45	-5	NW	2	b	2	55	41	ogm. c. b	3.0	-	
	Portland Bill	29.09	50	SW	7	p	29.51	+5.2	44	43	-6	NW	2	b	4	52	42	c. p	0.5	0.13	
Dungeness...	29.17	49	SSW	5	r	29.45	+3.4	38	37	-12	NW	2	bc	3	51	38	c. cp. b	0.7	0.04		
Dover...	*	*	*	*	*	29.51	+3.5	40	39	-10	NW	3	b	4	51	39	odp. or. c. b. c	0.0	0.04		
GERMANY, & C.	Wick...	28.91	40	W	2	c	29.16	+5.2	34	32	-7	W	2	bc	2	44	32	-	*	0.08	
	Nairn...	28.96	37	W	1	c	29.20	+5.4	36	34	+3	W	1	bc	1	41	32	c. cp. c	0.0	-	
	Aberdeen...	28.96	40	NW	1	o	29.26	+5.2	34	33	-6	WSW	2	b	2	44	33	c. o. bc. b	0.2	-	
	Leith...	28.97	42	WSW	2	c	29.29	+5.6	37	36	-6	SW	1	bc	*	47	36	opm. cm	*	0.01	
	North Shields	28.97	44	W	3	om	29.36	+4.9	35	34	-8	W	2	c	3	47	35	cm. om. r	*	0.01	
	Spurn Head...	29.02	46	SW	3	o	29.39	+4.4	38	37	-6	NW	4	bc	3	46	35	c. om. cp. bc	*	0.02	
	Yarmouth...	29.08	49	SSW	4	c	29.39	+3.7	38	37	-10	WNW	3	bc	4	51	38	opm. c. bc	0.0	0.03	
	Clacton-on-Sea...	29.11	45	S	2	o	29.46	+3.7	38	37	-6	WNW	2	b	2	49	36	ogp. c. od. bc	0.2	0.07	
	Nottingham...	29.03	48	SW	2	o	29.49	+5.4	38	37	-11	W	2	bm	*	50	37	op	0.0	0.07	
	Bath...	29.07	52	SW	1	o	29.54	+5.7	35	35	-17	Z	0	m	*	53	33	-	0.2	0.31	
FRANCE.	Oxford...	29.12	49	SSW	3	o	29.56	+5.4	36	35	-14	W	1	b	*	52	35	or. cp. o. bm	*	0.20	
	London (St. James's Park)	29.12	51	SW	4	odp	29.49	+4.4	38	38	-14	WSW	1	b	*	53	38	ogp. o. dp. or. b	0.0	0.13	
	The Scaw (Skagen)	29.11	37	E	1	m	29.08	+0.5	38	37	+2	E	3	m	1	39	36	*	*	0.12	
	Fanø...	29.08	41	SW	4	r	29.15	+1.5	41	41	+2	WSW	4	f	*	41	37	*	*	0.08	
	Cuxhaven†...	29.22	47	S	3	r	29.24	+1.5	46	48	+2	SW	3	r	*	48	44	*	*	0.08	
	The Heider...	29.17	46	SW	5	c	29.33	+2.3	43	42	0	WNW	4	c	3	46	43	*	*	0.08	
	Brussels...	*	*	*	*	*	29.45	+2.2	47	46	-5	WSW	4	o	*	54	46	*	*	0.16	
	Berlin†...	29.41	46	Z	0	r	29.38	+0.9	46	44	+5	SW	3	o	*	50	41	*	*	0.12	
	Frankfurt†...	29.45	48	SW	3	r	29.48	+1.6	48	43	+9	SW	4	c	*	54	39	*	*	0.12	
	Munich†...	29.67	42	SW	1	r	29.67	+1.1	41	40	+4	S	2	o	*	52	37	*	*	-	
SPANISH PENIN.	C. Gris Nez...	29.22	48	SSW	6	o	29.48	+2.9	43	41	-3	WNW	3	b	4	54	43	*	*	0.16	
	La Hève...	29.30	52	SW	6	bc	29.55	+2.8	45	43	-5	W	1	b	3	55	45	*	*	0.04	
	Brest...	29.36	51	WNW	5	c	29.54	+3.9	45	44	-7	NE	2	c	5	52	43	*	*	-	
	Lorient...	?	52	SW	4	b	?	?	46	46	-6	NE	3	o	6	54	45	*	*	0.16	
	Rochefort...	29.52	54	SSW	4	o	29.52	+0.9	51	51	-1	SSW	3	r	*	59	48	*	*	0.16	
	Biarritz...	29.62	62	S	5	r	29.60	+0.7	59	59	-4	S	5	o	2	64	59	*	*	-	
	Paris...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
SPANISH PENIN.	Belfort...	29.59	54	WSW	4	o	29.62	+0.7	51	49	-2	SW	4	o	*	59	49	*	*	0.04	
	Lyons...	29.64	59	SSW	2	o	29.63	+0.4	50	48	-7	SSE	1	o	*	61	49	*	*	-	
	Nice...	29.75	53	ESE	1	bc	29.77	-0.5	49	48	-4	E	1	c	3	61	48	*	*	-	
	Perpignan...	29.71	53	NE	1	bc	29.62	+0.2	50	50	-5	Z	0	o	*	61	45	*	*	-	
	Sauguinair...	29.90	59	S	4	o	29.90	0.0	59	55	-4	SE	3	f	5	66	52	*	*	-	
SPANISH PENIN.	Corunna...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
	Lisbon...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
	Azores (P. Delgada)...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	-	
SPANISH PENIN.	" Horta...	29.60	59	W	5	bc	29.77	+4.6	61	57	+3	W	3	o	4	64	55	*	*	0.04	

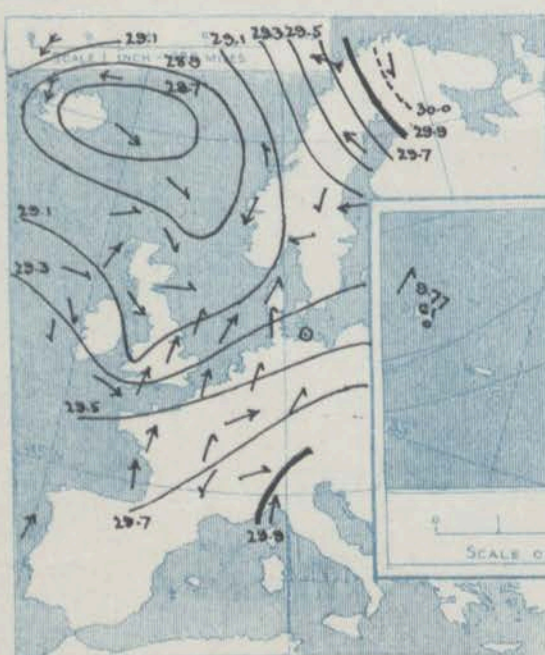


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A.M. YESTERDAY.

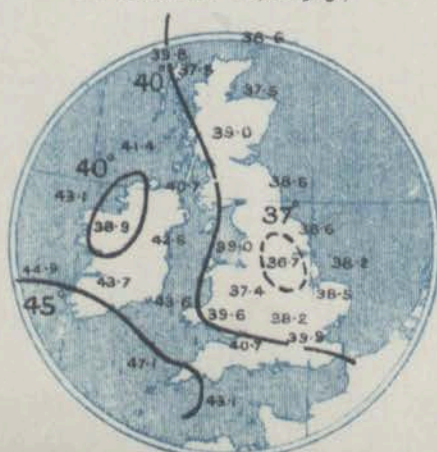


6 P.M. YESTERDAY



AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
DECEMBER - JANUARY.

(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)

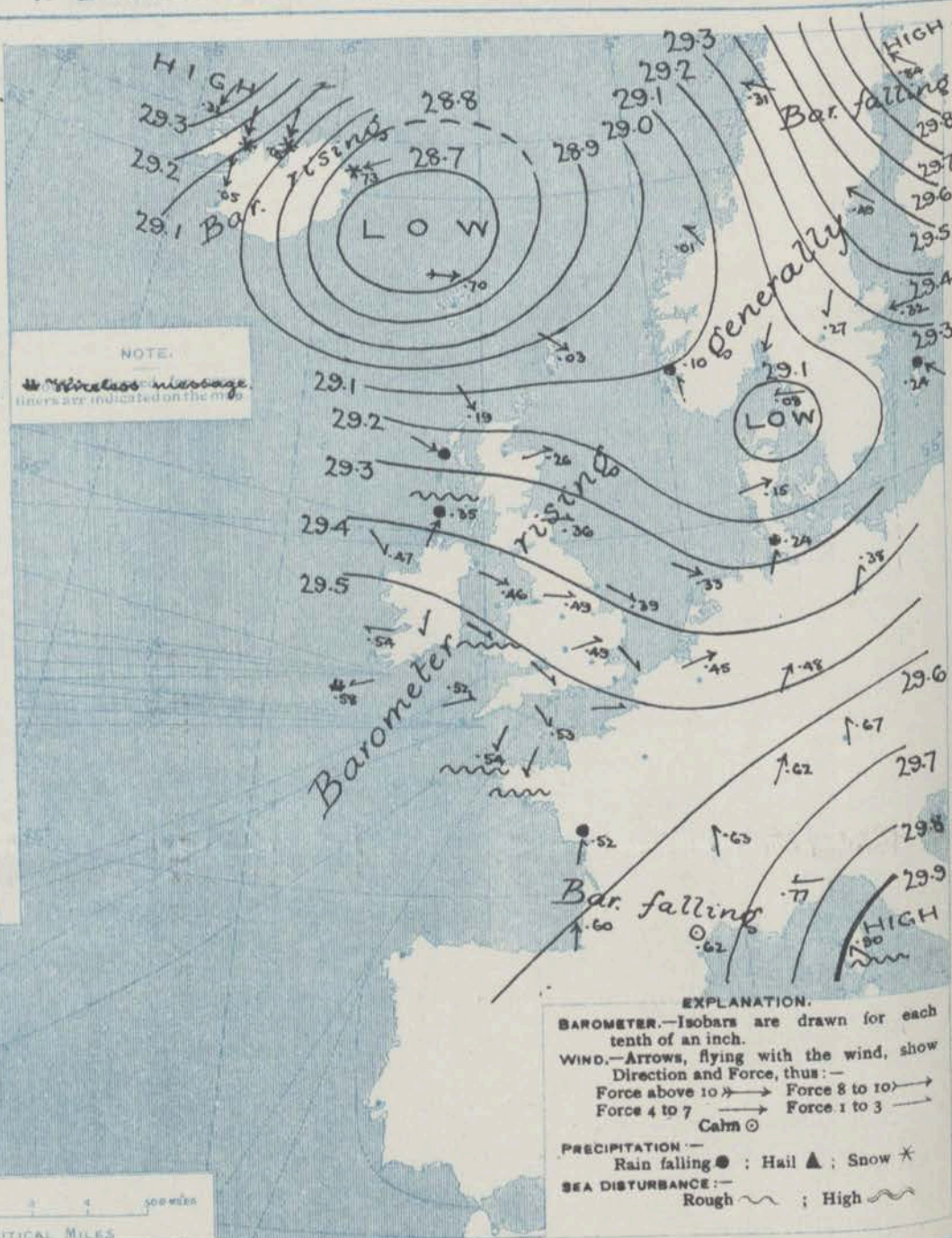


Thursday,

WEATHER

24<sup>th</sup> Dec:

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTE:  
Wireless message  
liners are indicated on the map.

EXPLANATION.  
BAROMETER.—Isobars are drawn for each  
tenth of an inch.  
WIND.—Arrows, flying with the wind, show  
Direction and Force, thus:—  
Force above 10 → Force 8 to 10 →  
Force 4 to 7 → Force 1 to 3 →  
Calm ○  
PRECIPITATION.—  
Rain falling ● ; Hail ▲ ; Snow ✱  
SEA DISTURBANCE.—  
Rough ~ ; High ~

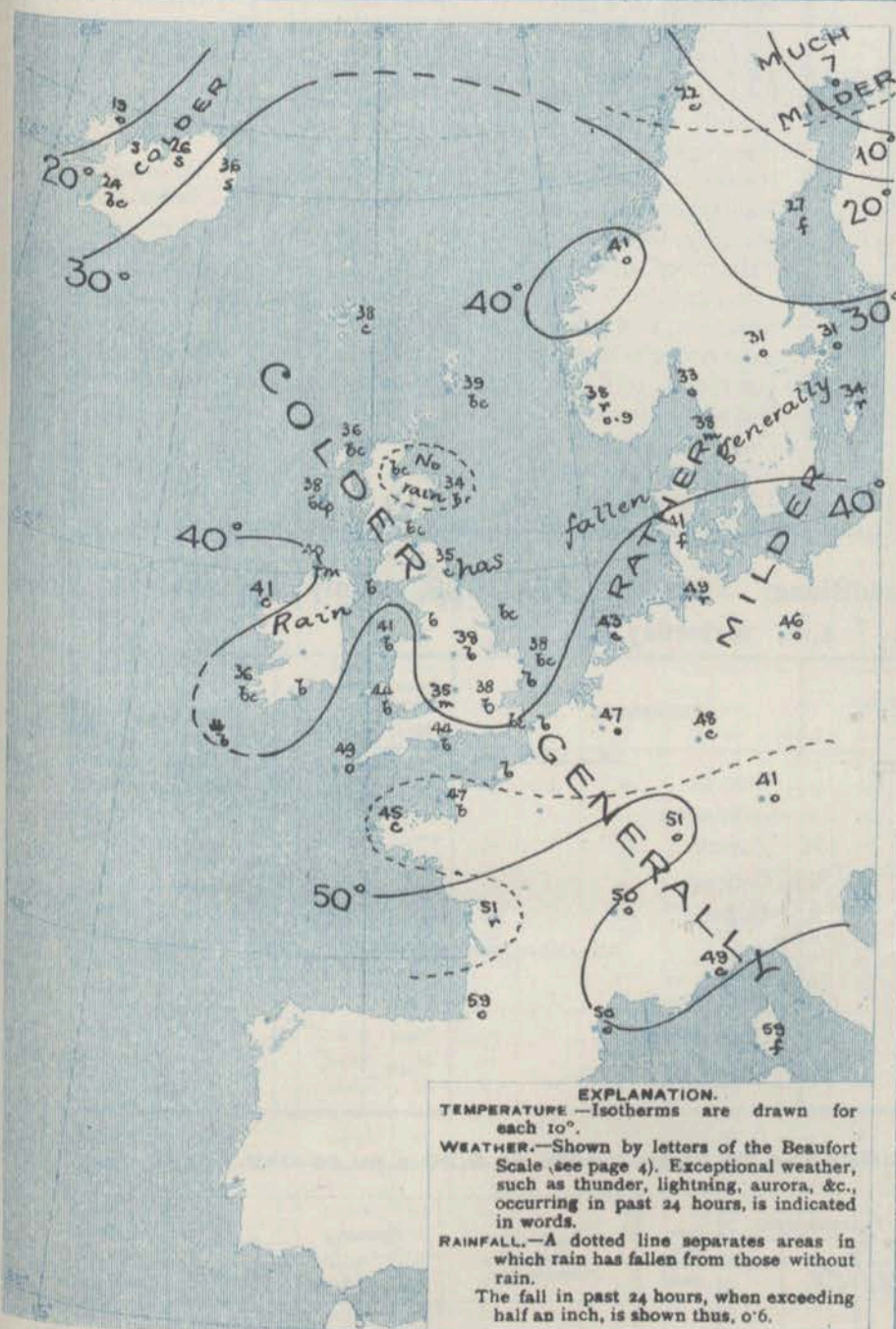
NOTES ON THE GENERAL SITUATION AT 7 A.M.

The depression noticed yesterday in the neighbourhood of the Azores continues to move slowly northward, and the "U-shaped" secondary system which appeared over the United Kingdom is passing away towards northern Europe. As a result of these changes the barometer is rising in these islands and the neighbouring parts of the Continent, but a fresh fall has set in over southern France. The wind is light to moderate from the westward over the United Kingdom, Germany and the Netherlands, but a light E. & breeze has set in at Valencia, and a N.E. breeze in Brittany, in the south-west of France the wind is S.W. and is freshening. The shift of wind to the westward has been accompanied by a general fall of temperature in these islands, and over the greater part of the country the readings are now below 40°. The Continental values range from 59° at Biarritz, and 51° at Rochefort to 30° and less over northern Scandinavia, and to 7° at Haparanda. The weather is fine over the United Kingdom generally, but rain is falling on our extreme north-west coasts. On the Continent the sky is generally cloudy, with rain at Widy, Tani and Rochefort. Snow is falling at most of the Icelandic stations. The sea is moderate or slight generally, but rather rough at Malin Head and Pembroke, as well as on the coasts of Brittany.



# CHARTS 24<sup>th</sup> December, 1909

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



### NOTES ON YESTERDAY'S WEATHER.

During yesterday the thermometer rose to 50° and upwards at most of the English and Welsh stations; in the north of Scotland it did not reach 45°. Frost occurred at night in several parts of the country; in London the thermometer on the grass fell to 29°, and at Oxford to 26°. The amount of bright sunshine was small; at many stations there was none. Rain was again experienced generally, but not in any great quantity. Wireless reports show that between the Irish coasts and the 33rd meridian ships experienced yesterday light to fresh breezes from the N.W. or N.W.W., and fair weather.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The atmospheric conditions are still somewhat unsettled. The barometer continues to rise generally, but a shift of wind to the Eastward at Valencia appears to indicate the advance of another depression towards our south-west coasts. Fine weather will continue over the United Kingdom to-day, but in the course of to-morrow the conditions in the south are likely to become disturbed, with, in all probability, some rain or snow.

**Notice.**—The Daily Weather Report for to-morrow (Christmas Day) and for Monday next will be published on Tuesday, December 28th. The Report for Sunday, December 26th will be published on Wednesday, December 29th.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { a } W. winds, light or moderate; fine.  
b } Cold, frost at night.
- 1 { a } W. to S.W. winds, light; fine.  
b } Cold, frost at night.
- 2 { a } W. to S.W. or S. winds, light; fine  
b } to-day, frost at night, becoming milder  
and unsettled to-morrow, with some rain  
or sleet.
- 3 { a } W. winds, light or moderate; cold,  
b } changeable, some showers.
- 4 { a } Same as Nos. 2 and 3.
- 5 { a } W. winds, light to S. moderate or  
b } fresh; fine at first, unsettled later,  
probably some rain. Milder.
- 6 { a } Same as No. 6.
- 7 { a } E. and S.E. winds, freshening; fine at  
b } first, some rain later. Milder.

### II WESTERN CHANNEL AND BAY.

Freshening S. winds, and a rather rough sea, heavy ground swell. Fine at first, some rain later, milder.

### FORECAST DISTRICTS.

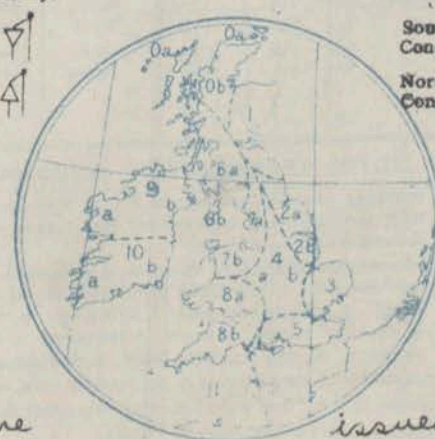
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

Signals hoisted this morning.

South Cone.   
North Cone.

South Cone.   
North Cone.



None

issued.



**TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.**

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	43	36	o. bc	0.1	0.11	Worthing, to 6 p.m. ...	51	47	r. o. c. o	0.7	0.09
Dublin (City), to 4 p.m. ...	48	41	c. ov. c		0.12	Brighton, to 6 p.m. ...	50	47	"	0.3	0.10
Rossall Beach, to 6 p.m. ...						Seaford, to 6 p.m. ...	51	47	r. o. c	0.5	0.05
Blackpool, to 9 p.m. ...	48	39		0.0	0.17	Eastbourne, to 6 p.m. ...	52	47		0.0	0.10
Southport, to 9 p.m. ...	46			0.0		Bexhill-on-Sea, to 9 p.m. ...	50	46	g. c	0.4	0.06
Rhyl, to 6 p.m. ...	53	36	o. r. bc	3.0	0.10	Hastings ...	"	"	"	0.1	"
Colwyn Bay, to 6 p.m. ...	51	41	bc. p. r	1.0	0.16	Folkestone, to 6 p.m. ...	51	47	"	0.2	0.01
Llandudno, to 9 p.m. ...	49	42	op. o. cp. o	1.2	0.13	Ramsgate, to 6 p.m. ...	"	"	"	1.2	0.07
Bettws-y-Coed, to 6 p.m. ...	49	45	c	0.0		Margate, to 6 p.m. ...	53	46	"	0.3	0.09
Towyn, to 6 p.m. ...						Felixstowe, to 6 p.m. ...	52	42	"	0.5	0.03
Aberystwyth, to 6 p.m. ...	53	46	"	0.0	0.16	Lowestoft, to 6 p.m. ...	50	40	"	0.0	0.02
Plymouth, to 9 p.m. ...						Skegness, to 6 p.m. ...	49	43	"	0.0	"
Paignton, to 6 p.m. ...	53	49		0.6		Scarborough, to 9 p.m. ...	47	38	"	0.0	0.03
Torquay, to 6 p.m. ...	52	49		0.3	0.27	Harrogate, to 6 p.m. ...	44	39	c. o	0.0	"
Weymouth, to 6 p.m. ...	52	49		0.5	0.13	Buxton, to 6 p.m. ...					
Bournemouth, to 6 p.m. ...	52	50		0.0	0.10	Darwen, to 9 p.m. ...					
Southsea, to 6 p.m. ...	52	49		0.0	0.12	Manchester, to 9 p.m. ...					
Eggnor, to 6 p.m. ...						Birmingham, to 9 p.m. ...					

**TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.**

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	o	o		Ins.	Utrecht ...	o	o		Ins.
Marseilles ...					Groningen ...				
Malta ...					Zurich ...				
Algiers ...					Geneva ...				
Tunis ...					Lugano ...				
Palermo ...					Berne ...	39		1.00 p.m.	Measured 7.30 a.m. 0.12
Naples ...					Coire ...	57		o	
Brindisi ...					Castasegna ...	39		r	
Rome ...					Davos ...	43		o	
Vienna ...									
St. Petersburg ...									

**WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.**

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Dis- turbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	
	Lat.	Long.		Direc.	Force.		Air.		Sea.			Lat.	Long.		Direc.	Force.		
							Dry Bulb.	Wet Bulb.										
	0	0	Ins.				0	0	0			0	0	Ins.				
Majestic { 23rd Dec. 4am	49N	12W	28.31	NW	4.5	-	-	-	-	-	Guernsey { 22nd Dec 4am	50N	22W	28.66	N	3.9	-	
- 7am	49N	11W	28.29	WNW	6.7	0	-	-	-	-	- 7am	50N	22W	28.67	N	2.9	-	
Montrose { 23rd - 4am	49N	12W	28.76	WNW	4.5	-	-	-	-	-	- 3pm	51N	20W	28.87	N	2.9	-	
- 7am	49N	12W	28.85	NW	6.7	0	-	-	-	-	- 6pm	51N	19W	28.92	N	3.9	-	
Saka Manitoba {	21st - 3pm	50N	24W	ENE	8.9	-	-	-	-	-	- 7am	51N	16W	29.11	NNW	4.5	-	
	- 6pm	50N	23W	NE	8.9	0	-	-	-	-		- 3pm	51N	15W	29.01	NNW	4.5	-
	22nd - 4am	51N	22W	NNE	8.9	0	-	-	-	-		- 6pm	51N	12W	29.39	NNW	1.3	-
	- 7am	51N	21W	NNE	8.9	0	-	-	-	-		- 7am	51N	11W	29.43	N	1.3	-
	- 3pm	51N	20W	N	8.9	0	-	-	-	-	- 7am	49N	34W	28.95	N	4.5	-	
	- 6pm	51N	19W	N	8.9	0	-	-	-	-		- 3pm	49N	33W	28.93	NNE	4.5	-
	23rd - 4am	51N	17W	NNW	4.5	bc	-	-	-	-		- 6pm	49N	30W	29.17	NNE	1.3	-
	- 7am	51N	16W	NNW	4.5	bc	-	-	-	-		- 7am	49N	29W	29.25	N	1.3	-
- 3pm	51N	13W	NW	4.5	bc	-	-	-	-	St Louis { 23rd - 4am	50N	25W	29.23	NE	1.3	-		
- 6pm	51N	13W	NW	1.3	bc	-	-	-	-		- 7am	50N	23W	29.27	NNE	1.3	-	
											- 3pm	50N	19W	29.36	NW	1.3	-	
											- 6pm	50N	18W	29.45	NNW	1.3	-	
											23rd - 4am	50N	13W	29.58	ENE	1.3	-	
											- 7am	50N	11W	29.58	ENE	1.3	-	

**NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—**

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.61 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.
- \* Information for these columns is not usually received.
- + The figures in the "wet bulb" column represent the relative humidity.
- † Received too late for insertion in Charts.

**TERMS OF SUBSCRIPTION for the Daily Weather Report**  
and for transmission of Forecasts by telegraph may be  
obtained on application.

METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.  
W. N. SHAW, (Director.)

SCANDINAVIA.

ICELAND & FAEROE.

BRITISH ISLANDS.

GERMANY, &c.

FRANCE.

SPANISH PENIN.



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

Saturday, 25th December, 1909.

STATIONS.	YESTERDAY EVENING.						THIS MORNING.										PAST 24 HOURS.				
	BAROM.		TEMP.		WIND.		BAROMETER.		TEMPERATURE.		WIND.		TEMP.		WIND.		TEMP.		Weather.	Sun-shine.	Rainfall.
	At 82° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Dirac.	Force (0 to 12).	Weather.	At 82° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Dirac.	Force (0 to 12).	Weather.	Sea (0 to 9).	Max.	Min.	Weather.	Sun-shine.			
	Ins.	°				Ins.	Ins.	°	°	°					°	°		Hours.	Ins.		
SCANDINAVIA.	Haparanda...	29.39	6	E	2	6	29.67	-17	3	3	-4	2	0	b	7	1					
	Hernösand...	29.49	26	2	0	5	29.48	-01	24	23	-3	2	0	o	28	14				0.04	
	Stockholm...	29.34	30	ENE	4	o	29.46	+14	27	26	-4	NNW	2	o	32	27				0.20	
	Wisby...	29.73	36	NE	4	r	29.39	+15	36	33	+2	NNW	4	o	37	32				0.32	
	Karlstad...	29.32	30	ENE	2	5	29.49	+22	29	27	-2	2	0	o						0.35	
	Färder (X'ania Fjord)	29.31	33	NNE	3	o	29.45	+22	30	28	-3	W	2	6	34	30				0.12	
	Bodö...	29.27	27	E	6	b	29.24	-07	27	24	+5	E	14	o	27	19					
	Christiansund...	29.13	41	S	1	bc	29.22	+21	38	34	-5	S	1	bc	41	37				0.04	
ICELAND & FAEROE.	Skudesnaes...	29.30	41	W	4	c	29.41	+31	40	37	+2	W	4	c	41	36				0.35	
	Isafjord...	29.38	19	NE	7	o	29.34	+02	17	*	-2	2	0	c							
	Reykjavik...	29.19	24	N	7	c	29.26	+21	21	*	-3	M	5	b							
	Seydisfjord...	28.99	23	NE	7	s	29.16	+43	23	*	-13	WNW	7	c							
	Thorshavn...	28.92	36	WNW	8	c	29.21	+51	36	*	-2	W	4	c							
	Sumburgh Head	29.08	38	W	6	r	29.28	+25	38	37	-1	WNW	4	c	41	31	bc, r			0.27	
	Stornoway...	29.32	36	W	5	bcq	29.51	+32	38	35	+2	NW	4	bc	38	32	bcq, r	1.8		0.18	
	Castlebay (Barra Id.)	29.43	42	WNW	6	c	29.60	+32	41	38	+3	NW	3	bc	43	33	bc, c, op, bc	2.5		0.32	
	Malin Head...	29.51	42	W	3	bc	29.58	+30	43	41	+2	WNW	4	bcq	44	40	bcq, bc, r			0.07	
	Blacksod Pt.	29.56	41	S	3	bc	29.77	+30	41	37	0	WNW	1	b	45	37	bc, bcq			0.12	
	Valencia...	29.69	42	S	1	bc	29.86	+32	45	42	+3	WNW	3	bc	48	34	b, bc, bcq	5.1		0.13	
	Roche's Point...	29.70	42	NNW	2	b	29.86	+30	40	39	+4	W	2	bc	47	34	b, bc, bcq			0.06	
	Birr Castle...	29.45	34	2	0	b	29.81	+28	34	33	+1	2	0	b	42	32	bc, b	4.6		0.10	
	Donaghadee...	29.59	37	SSW	2	b	29.60	+18	37	37	+2	WSW	2	bc	43	30	bc, bc			0.06	
	Liverpool Obsy...	29.67	38	WSW	2	b	29.63	+17	39	37	0	SSW	4	bc	42	34	b			0.06	
	Holyhead...	29.64	41	W	2	b	29.65	+19	43	40	+2	WNW	6	o	45	39	b				
	Pembroke (St. Ann's Hd.)	29.69	44	2	0	bc	29.76	+25	47	43	+3	W	6	bcq	49	40	b, bc	6.4		0.08	
	Scilly (St. Mary's)	29.72	49	W	2	c	29.90	+35	47	44	-2	W	4	c	52	46	c	4.2		0.02	
	Jersey (St. Aubins)	29.72	43	NW	2	bc	29.93	+40	45	44	-2	W	3	bc	48	43	bc, bcq	7.0		0.01	
	Portland Bill...	29.69	45	W	1	b	29.81	+30	47	46	+3	W	5	b	44	42	bc, bcq	2.4			
	Dungeness...	29.66	39	NW	3	c	29.83	+38	41	40	+3	WSW	3	bc	45	30	c, bc, bc				
	Dover...						29.84	+33	38	37	-2	SW	2	b	46	31	o, bc	4.1			
	Wick...	29.29	35	W	4	bc	29.44	+28	34	32	0	W	2	bc	37	32					
	Nairn...	29.38	35	W	1	c	29.46	+26	34	33	-2	W	1	o	37	31	bc, p, o	3.3		0.04	
	Aberdeen...	29.42	36	SW	2	b	29.51	+25	35	34	+1	SSW	1	o	39	32	b, bc, o	4.7			
	Leith...	29.47	37	WSW	3	bc	29.44	+15	40	37	+3	SW	3	c	41	36	c, bc, bc			0.01	
	North Shields...	29.56	37	W	3	bc	29.55	+19	36	35	+1	SSW	2	bc	40	33	c, bc	5.3			
	Spurn Head...	29.61	38	WSW	3	b	29.64	+25	36	35	-2	SSW	4	c	40	?	bc, bc, bc				
	Yarmouth...	29.65	38	W	1	bc	29.73	+39	34	33	-4	W	1	bc	45	32	bc, bc	6.4			
	Clacton-on-Sea...	29.67	37	WNW	1	bc	29.82	+36	32	32	-6	W	1	f	44	31	bc, bc, of	5.5			
	Nottingham...	29.66	37	S	2	b	29.70	+21	37	36	-1	SW	3	c	43	31	bc, b	4.4		0.05	
	Bath...	29.70	37	2	0	m	29.80	+26	38	38	+3	2	0	bc	46	26				0.05	
	Oxford...	29.74	37	WSW	2	b	29.81	+25	37	36	+1	WSW	2	o	47	29	b, f, c, op			0.03	
	London (St. James's Pk)	29.69	37	2	0	bc	29.80	+21	28	28	-10	WSW	1	bc	45	28	b, bc, bc	0.6			
	The Scaw (Skagen)	29.32	37	NW	4	o	29.50	+42	36	35	-2	WSW	2	b	39	36				0.08	
	Fanö...	29.56	37	W	2	b	29.66	+51	37	36	-4	W	2	bc	41	36					
	Cuxhaven†...	29.52	40	W	3	b	29.75	+51	34	36	-12	W	2	b	46	34					
	The Helder...	29.65	41	WNW	1	bc	29.80	+47	39	38	-4	WSW	1	b	43	39					
	Brussels...						29.89	+44	32	32	-15	WNW	1	f	47	31					
	Berlin†...	29.54	44	SW	4	c	29.78	+40	35	34	-11	W	2	o	50	34					
	Frankfurt†...	29.64	44	N	4	o	29.83	+35	37	36	-11	NW	1	c	52	37					
	Munich†...	29.67	44	SW	2	r	29.75	+08	41	40	0	SW	2	r	50	29				0.12	
	C. Gris Nez...	29.69	42	N	2	m	29.88	+40	42	40	-1	WSW	4	c	46	36					
	La Hève...	29.78	42	NE	1	o	29.95	+40	38	36	-7	S	1	b	41	36					
	Brest...	29.76	47	NE	2	b	29.89	+35	49	47	+4	WNW	3	b	50	43				0.04	
	Lorient...	?	45	NNE	4	b	?	?	45	45	-1	W	3	bc	52	41				0.08	
	Rochefort...	?	53	3	3	o	30.02	+50	44	42	-7	NNW	3	b	59	40				0.08	
	Biarritz...	29.71	39	SSW	4	o	29.98	+38	52	51	-7	W	4	o	63	50					
	Paris...	29.65	45	N	2	r	29.95	+41	30	30	-19	NNW	1	b	53	30				0.12	
	Belfort...	29.65	48	WSW	2	r	29.90	+23	41	41	-10	ENE	4	r	55	41				0.43	
	Lyons...	29.68	51	S	1	c	29.87	+24	48	45	-2	N	1	r	57	47				0.04	
	Nice...	29.70	51	2	0	c	29.76	-01	51	?	+2	W	1	b	52	46				0.32	
	Perpignan...	29.73	53	2	0	b	29.93	+31	56	50	+6	NW	4	o	62	49					
	Sanguinaire...																				
	Corunna...																				
	Lisbon...	29.96	57	W	3	r	30.13	+27	55	53	-5	NW	3	b	61	54				0.08	
	Azores (P. Delgada)...	30.06	62	SSW	3	o	30.10	+31	62	61	+1	SSW	4	o	63	61				0.04	
	Horta...	29.93	64	SW	4	f	29.95	+18	65	63	+4	SW	5	o	65	61				0.08	



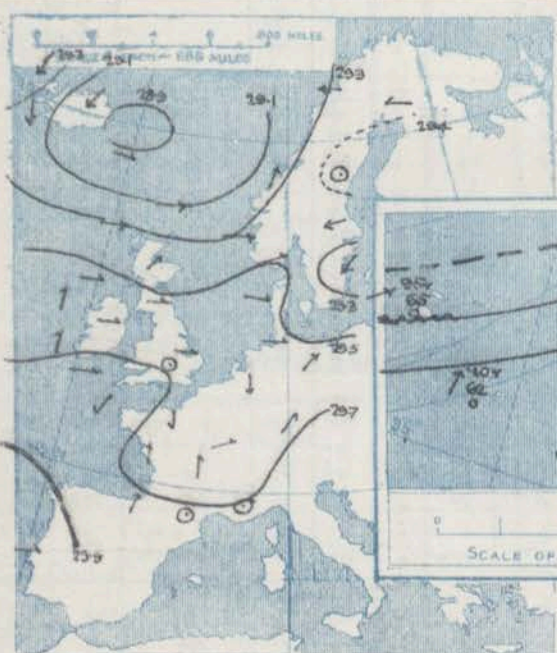
# SUPPLEMENTARY CHARTS OF BAROMETER AND WIND

FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A.M. YESTERDAY.

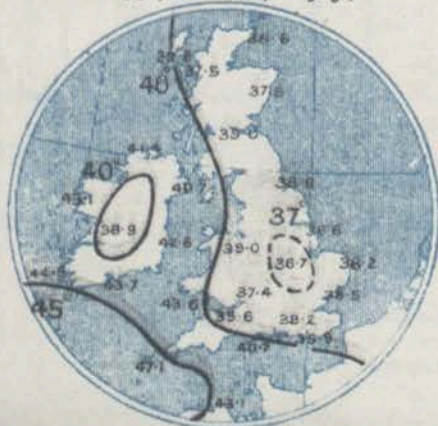


6 P.M. YESTERDAY.



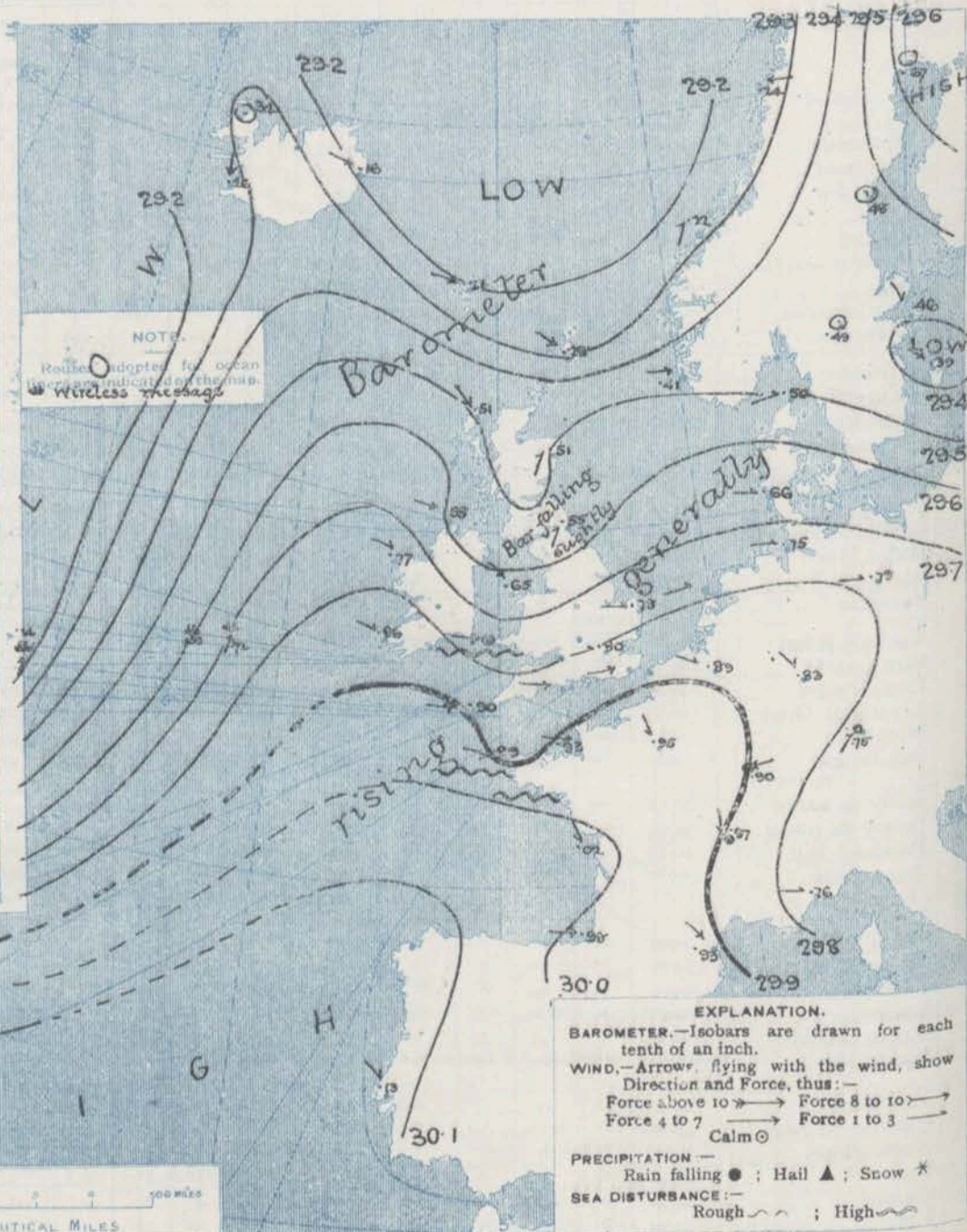
AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
DECEMBER - JANUARY.

(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Saturday, WEATHER 25<sup>th</sup> Dec.

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

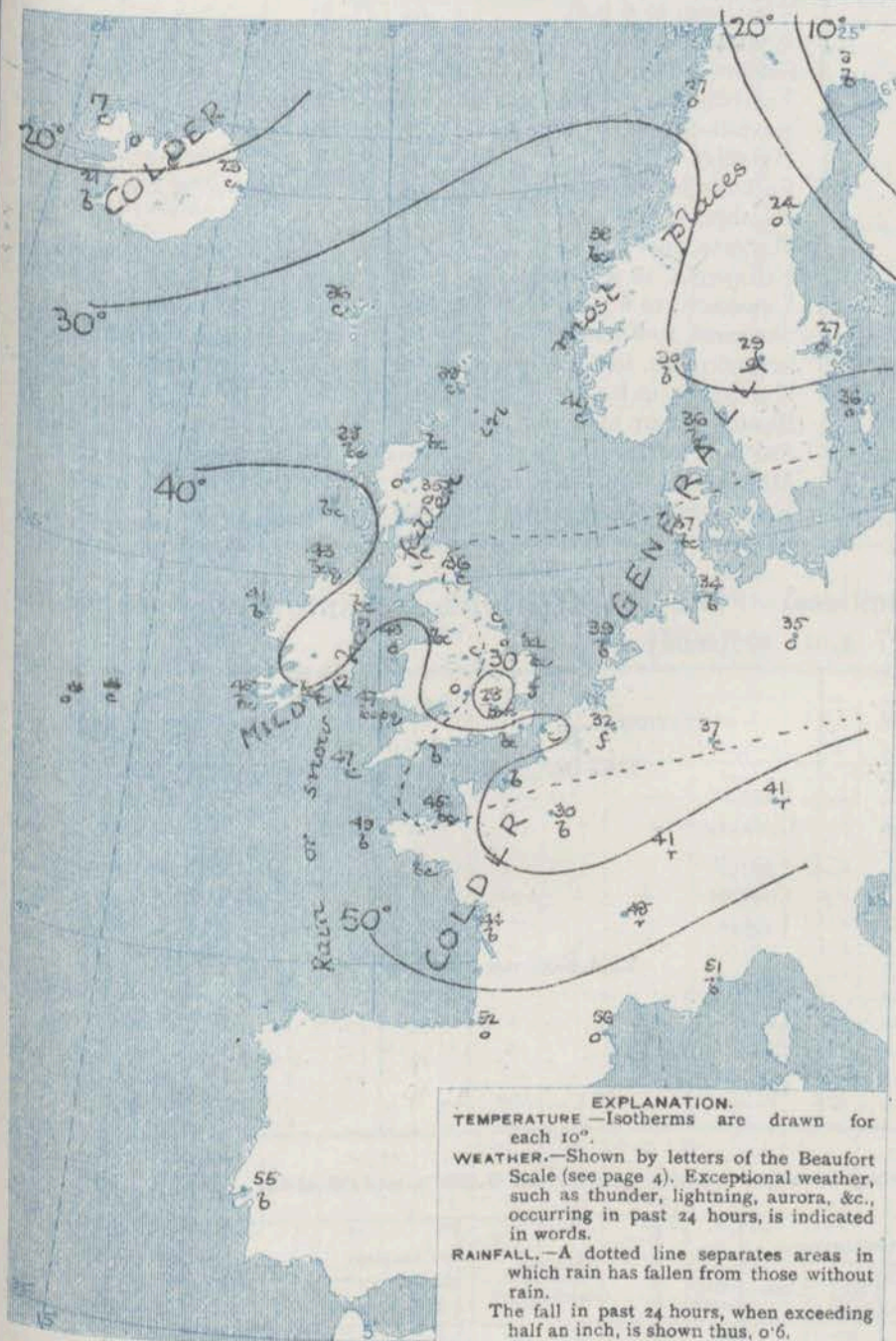
A large depression with the barometer below 29.2 ins is moving eastward between Iceland and Norway, while some secondary systems are passing over these islands and the channel. The highest pressure, above 30.1 ins, is found in Portugal and the adjacent part of Spain.

The main current of wind over these islands is from the Westward but on our western coasts it tends to draw into North West, and in the east into South. On some exposed parts of our western coasts it blows strongly. Light and rather variable winds are reported from the Continent, but at Skerfving there is a high wind from the North Westward. Temperature has fallen at nearly all the Continental stations and also in the south-east of England. In these islands the lowest reading reported is 38° in London; on our south-west coast the thermometer is as high as 41°. Fair to fine weather prevails over the greater portion of the United Kingdom, France and Denmark, but showers are falling at Pembroke and rain at Belfast and Lyons. Rain is also falling at Munich. At most stations in Scandinavia the sky is cloudy or overcast.



# CHARTS 25<sup>th</sup> December, 1909.

## 2. TEMPERATURE AND WEATHER AT 7 A.M TO DAY.



### NOTES ON YESTERDAY'S WEATHER

The maximum temperature readings of yesterday were below 40° over a considerable part of Scotland but 45° or above in several parts of England and Ireland. Frost occurred at night in various parts of the Kingdom, the lowest minimum reported being 26° at Bath. Showers, generally slight, have been experienced over the major portion of these Islands, but most places but most places have recorded several hours of bright sunshine; 7 hours at Plymouth and 6 hours or more at some other English stations.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

0 { a  
b

1

2 { a  
b

3

4 { a  
b

5

6 { a  
b

7 { a  
b

8 { a  
b

9 { a  
b

10 { a  
b

*None issued*

### 11 WESTERN CHANNEL AND BAY.

### FORECAST DISTRICTS.

Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

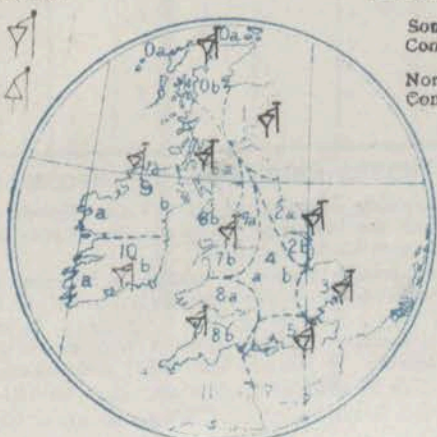
Signals hoisted this morning.

South Cone.

South Cone.

North Cone.

North Cone.





# DAILY WEATHER REPORT.

Saturday, 25th December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	46	33		2.5	0.14	Werthing, to 6 p.m. ...	44	37	c. o. m.	2.2	0.01
Dublin (City), to 4 p.m. ...	41	34	c. bc. b			Brighton, to 6 p.m. ...	42	40	"	2.1	0.02
Rossall Beach, to 6 p.m. ...	43	38	c		0.01	Seaford, to 6 p.m. ...	50	35	b. o	2.4	
Blackpool, to 9 p.m. ...	44	38	c. bc	6.4	0.02	Eastbourne, to 6 p.m. ...	50	38	"	2.6	0.04
Southport, to 9 p.m. ...	43	36	c. b. c	6.1		Bexhill-on-Sea, to 9 p.m. ...	49	38	bm	2.8	
Rhyl, to 6 p.m. ...	46	36		5.8	0.05	Hastings ...	"	"	"	3.2	
Colwyn Bay, to 6 p.m. ...	45	38	bc. b	5.0		Folkestone, to 6 p.m. ...	49	37	or. bc. b. bc	3.8	0.01
Llandudno, to 9 p.m. ...	46	38	a. b. bc.	3.8	0.02	Ramsgate, to 6 p.m. ...	"	"	"	3.9	0.03
Bettws-y-Coed, to 6 p.m. ...	43	35		3.8		Margate, to 6 p.m. ...	43	40	"	2.8	0.04
Towyn, to 6 p.m. ...						Felixstowe, to 6 p.m. ...	50	36	"	5.5	
Aberystwyth, to 6 p.m. ...	47	36	"	6.0		Lowestoft, to 6 p.m. ...	48	35	c. o. bc	6.2	
Plymouth, to 9 p.m. ...						Skegness, to 6 p.m. ...	42	32	r. b	5.1	0.02
Paignton, to 6 p.m. ...	49	34	b	6.2		Scarborough, to 9 p.m. ...	48	36	bc	5.9	0.16
Torquay, to 6 p.m. ...	51	36	"	6.0		Harrogate, to 6 p.m. ...	44	33	o. cr. b	5.9	0.26
Weymouth, to 6 p.m. ...	47	36	b	7.0		Buxton, to 6 p.m. ...	39	35	or. c	1.6	0.04
Bournemouth, to 6 p.m. ...	46	35	b	6.4	0.06	Darwen, to 9 p.m. ...	40	34	ow. b. c	2.0	0.02
Southsea, to 6 p.m. ...	49	37	"	5.3		Manchester, to 9 p.m. ...					
Bognor, to 6 p.m. ...	45	36	b. bc. m	2.9	0.03	Birmingham, to 9 p.m. ...	44	35	b	6.0	

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	not received			Ins.	Utrecht ...	54	45	r. o	0.24
Marseilles ...	64	52	o. o	"	Groningen ...	50	45	c. o	0.08
Malta ...	67	51	bc	"	Zurich ...	"	"	c. o	0.04
Algiers ...	73	64	o. bc	"	Geneva ...	"	"	o. o	0.04
Tunis ...	72	39	bc. bc	"	Lugano ...	"	"	r. o	0.71
Palermo ...	75	60	o. o	"	Berne ...	59		bc	Measured 7.30 a.m. 0.04
Naples ...	61	50	c. b	"	Coire ...	55	"	b	
Brindisi ...	59	45	o. o	"	Castasegna ...	41	"	r	0.16
Rome ...	64	52	o. b	"	Davos ...	46	"	b	
Vienna ...	37	30	f. f	"					
St. Petersburg ...	16	9	o. o	"					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dirac.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Dirac.	Force.	
St. Louis { Dec 24 2pm	50 N	9 W	29.75	N	1-3									Ins.			
{ " 6pm	50 N	7 W	29.72	N	1-3	bc											

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1.

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.61 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.  
† The figures in the "wet bulb" column represent the relative humidity.  
‡ Received too late for insertion in Charts.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
65, VICTORIA STREET, S.W.  
W. N. SHAW, (Director.)

SCANDINAVIA.

ICELAND & FAEROE.

BRITISH ISLANDS.

GERMANY, & C.

FRANCE.

SPANISH PENIN.

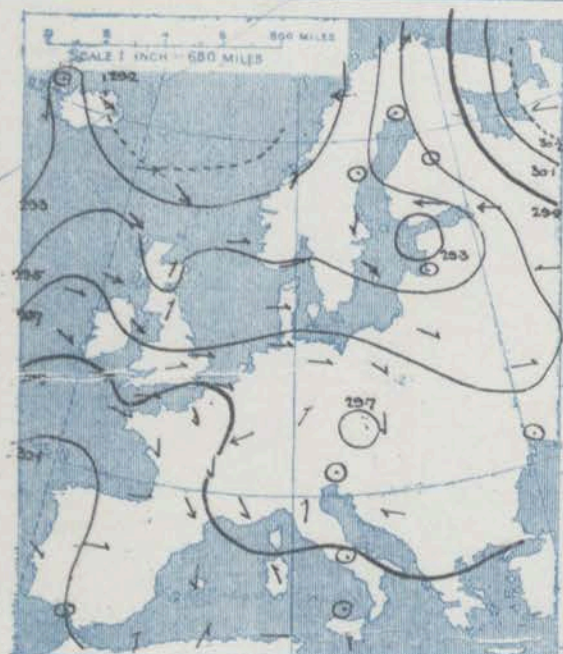


For NOTES see Page 4.

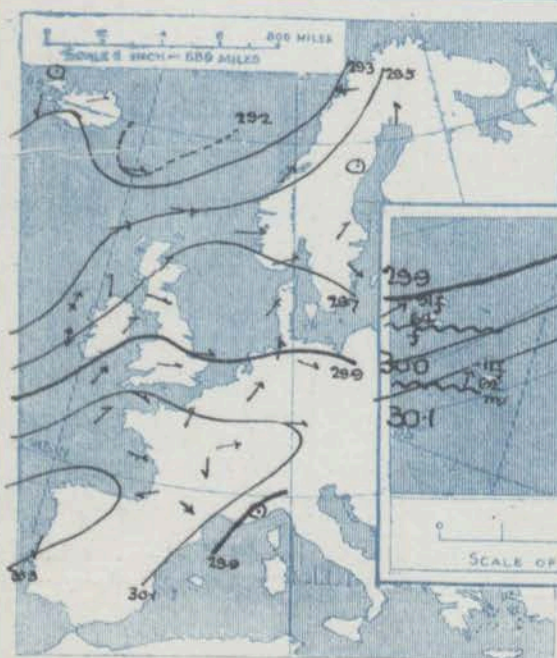


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A.M. YESTERDAY.

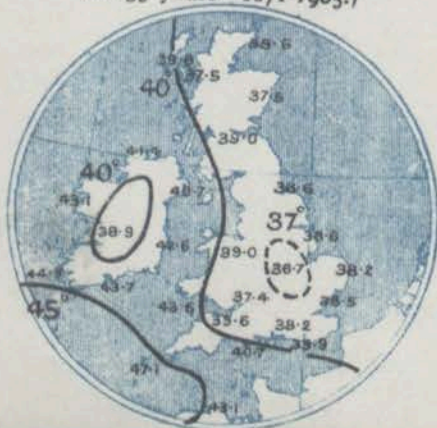


6 P.M. YESTERDAY.



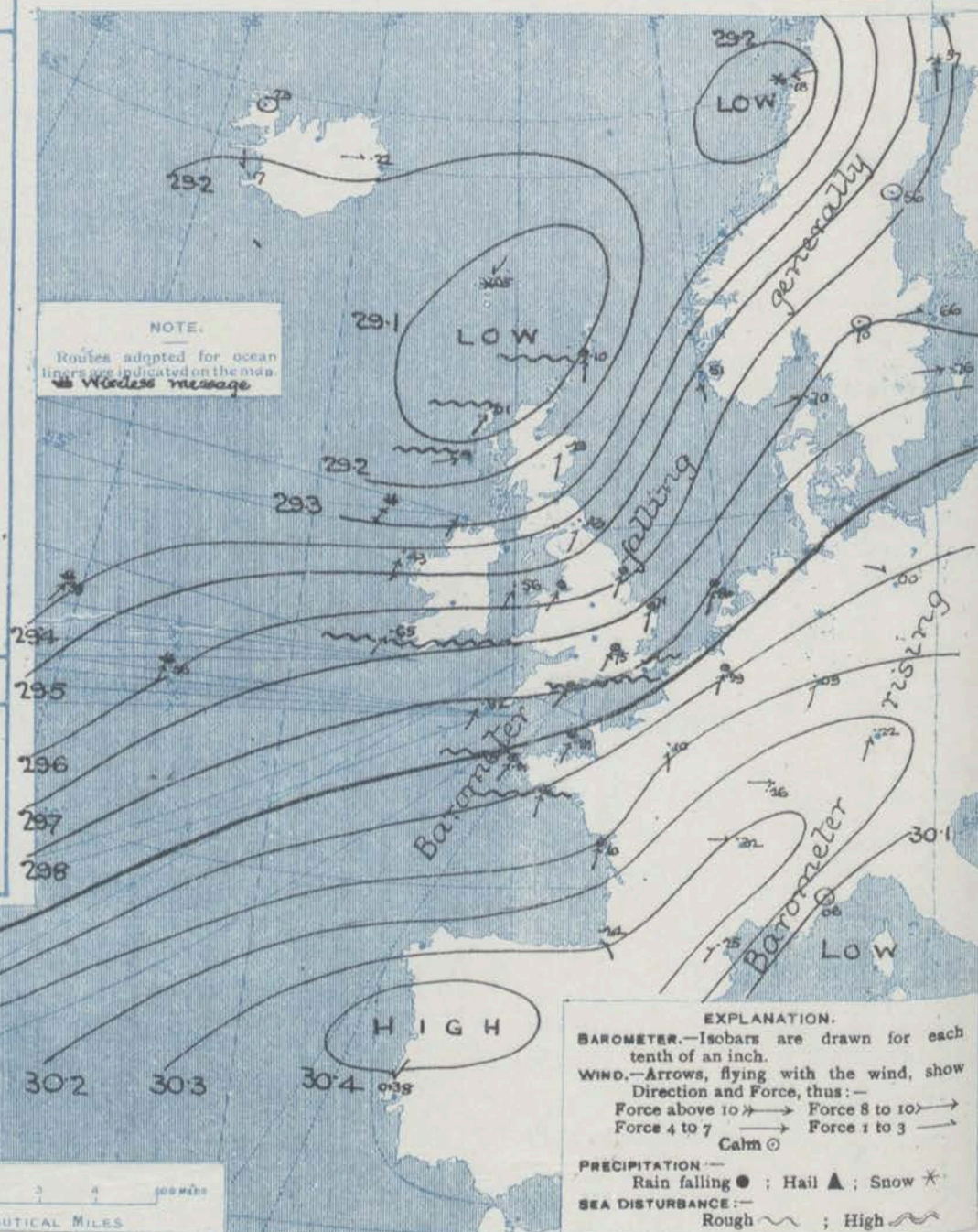
AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
DECEMBER - JANUARY.

(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Sunday, WEATHER 26<sup>th</sup> Dec:

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

The distribution of pressure remains of a very unstable type, secondary minima becoming detached from the main depression on the upper Atlantic and skirting our western and northern coasts for the Arctic Sea. One is now centred near Bodø, with the barometer below 29.2 ins, another is off the Hebrides with pressure at 29 ins, and there are indications of another north-west of the Azores, the barometer having fallen to 29.9 ins. at Horta. There is an anticyclone over Southern France and the Peninsula with the barometer above 30.4 ins. at Oporto. The gradient is considerable over the greater part of the region under observation.

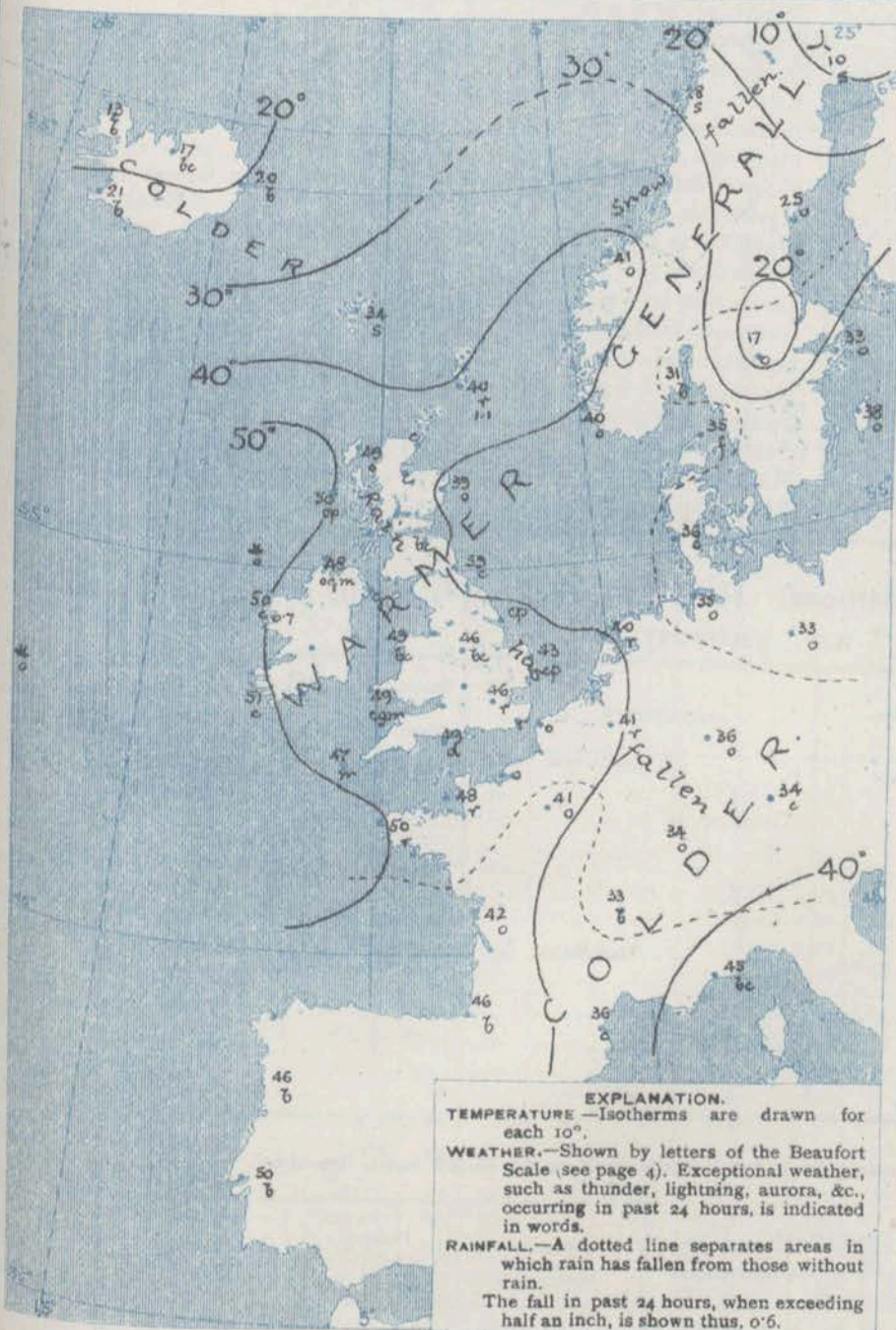
SW. winds prevail except in the neighbourhood of Iceland, and the force of a fresh to strong or high wind is blowing in many localities. Temperature has risen in most countries, rather decidedly over the British Isles. At the home stations the readings range from 39° at Aberdeen and Shields to 51° at Valencia; over western Europe from 33° at Berlin and Lyons to 50° at Brest and Lisbon; in Scandinavia from 10° at Haparanda to 41° at Christiansund; and in Iceland from 12° to 21°. The weather is fine in Iceland, very cloudy to overcast elsewhere, with rain in many parts of Britain, and the neighbouring parts of the Continent, more in northern Scandinavia. The sea is rough or rather rough on our northern and western coasts, on the English Channel and the Bay of Biscay.



# CHARTS

26th December 1909

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



**EXPLANATION.**  
**TEMPERATURE.**—Isotherms are drawn for each 10°.  
**WEATHER.**—Shown by letters of the Beaufort Scale (see page 4). Exceptional weather, such as thunder, lightning, aurora, &c., occurring in past 24 hours, is indicated in words.  
**RAINFALL.**—A dotted line separates areas in which rain has fallen from those without rain.  
 The fall in past 24 hours, when exceeding half an inch, is shown thus, 0.6.

## NOTES ON YESTERDAY'S WEATHER.

During yesterday the thermometer rose to about 50° in the Hebrides and many parts of Ireland and England, but only touched 40° or 41° in the northeast of Great Britain. Rain has fallen in all districts, more than half an inch in the west of Ireland and as much as 1.1 in. at Sumburgh Head. Bright sunshine was very prevalent over the greater portion of the Kingdom, several stations reporting more than 5 hours and both more than 6 hours. Wireless reports show that steamers experienced moderate to fresh or strong winds from the S.W., a gale locally, as far west as the 25th meridian.

## GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

## FORECASTS

For the 24 hours commencing at  
**NOON TO-DAY.**

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

0 { a  
 b

1

2 { a  
 b

3

4 { a  
 b

5

6 { a  
 b

7 { a  
 b

8 { a  
 b

9 { a  
 b

10 { a  
 b

11 WESTERN CHANNEL AND BAY.

## FORECAST DISTRICTS.

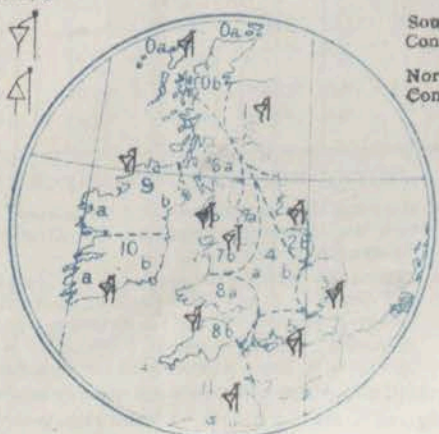
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—  
 Signals hoisted yesterday. Signals hoisted this morning.

South  
 Cone.

North  
 Cone.

South  
 Cone.

North  
 Cone.





# DAILY WEATHER REPORT. *Sunday, 26th December, 1909.*

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	49	34	bc. b. bc.	27	0.21	Worthing, to 6 p.m. ...	46	29	c. o	5.1	-
Dublin (City), to 4 p.m.	42	34	b. or. bc. o	-	0.05	Brighton, to 6 p.m. ...	46	30	r. b	5.1	0.03
Rossall Beach, to 6 p.m.	42	34	c. or. c	-	0.28	Seaford, to 6 p.m. ...	46	30	-	-	-
Blackpool, to 9 p.m. ...	43	35	r. c. o	5.5	0.13	Eastbourne, to 6 p.m. ...	47	34	-	4.7	0.14
Southport, to 9 p.m. ...	42	33	oh. c. b	3.9	-	Bexhill-on-Sea, to 9 p.m.	47	34	-	4.6	-
Rhyl, to 6 p.m. ...	38	33	bc. r. o	5.2	0.06	Hastings ...	45	29	bc. b. o. r. b	3.9	0.01
Colwyn Bay, to 6 p.m. ...	44	32	o	3.5	0.14	Folkestone, to 6 p.m. ...	45	29	-	4.5	0.03
Llandudno, to 9 p.m. ...	45	35	c. bc. c	3.6	0.03	Ramsgate, to 6 p.m. ...	43	35	-	3.8	-
Bettws-y-Coed, to 6 p.m.	45	35	h. b	5.0	0.15	Margate, to 6 p.m. ...	43	35	-	-	-
Towyn, to 6 p.m. ...	45	41	-	4.0	-	Felixstowe, to 6 p.m. ...	40	35	b. r. bc. b	3.2	0.02
Aberystwyth, to 6 p.m. ...	50	40	bc. op	4.6	0.02	Lowestoft, to 6 p.m. ...	41	33	bc.	3.0	0.04
Plymouth, to 9 p.m. ...	49	32	b	5.8	0.02	Skegness, to 6 p.m. ...	39	31	bc. o. c. p. bc	1.8	0.05
Paignton, to 6 p.m. ...	51	35	-	5.9	0.01	Scarborough, to 9 p.m. ...	37	31	c. or. sp. c. b	4.7	0.30
Torquay, to 6 p.m. ...	48	31	b. bc	5.8	-	Harrogate, to 6 p.m. ...	39	30	b. c. o. r. h. bc	4.5	0.18
Weymouth, to 6 p.m. ...	48	31	-	-	-	Buxton, to 6 p.m. ...	42	32	or. op. bc. c. o	2.8	0.09
Bournemouth, to 6 p.m. ...	48	31	-	-	-	Darwen, to 9 p.m. ...	43	32	c. o	3.8	0.01
Southsea, to 6 p.m. ...	48	31	-	-	-	Manchester, to 9 p.m. ...	43	32	-	-	-
Bognor, to 6 p.m. ...	48	31	-	-	-	Birmingham, to 9 p.m. ...	43	32	-	-	-

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		Weather.	Rain. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Rain. Ins.
	Max.	Min.				Max.	Min.		
Madeira ...	63	46	b. o	-	Utrecht ...	45	28	bc. f	-
Marseilles ...	68	59	bc	-	Groningen ...	45	32	c. m	0.24
Malta ...	79	57	c. r	0.16	Zurich ...	-	-	r. o	0.28
Algiers ...	72	37	bc. bc	-	Geneva ...	-	-	o. r	0.12
Tunis ...	73	52	b. o	-	Lugano ...	-	-	o. o	-
Palermo ...	60	55	o. b	0.08	Berne ...	42	-	o	Measured 7.30 a.m. 0.03
Brindisi ...	60	43	c. b	-	Coire ...	45	-	b	0.20
Rome ...	64	56	o. m	1.46	Castasegna ...	43	-	o	-
Vienna ...	37	32	f. f	-	Davos ...	41	-	bc	-
St. Petersburg ...	18	10	s. s	0.04					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
New York { 24th Dec. 1909	51N	12W	29.52	NW	1-3	-	-	-	-	-				Ins.			
Calcutta { 24th Dec. 1909	51N	12W	29.57	WNW	1-3	b	-	-	-	-				-			
Canada { 24th Dec. 1909	51N	18W	29.62	W	4-5	-	-	-	-	-				-			
Minneapolis { 24th Dec. 1909	51N	19W	29.66	WNW	4-5	c	-	-	-	-				-			
	50N	29W	29.48	NNW	1-3	-	-	-	-	-				-			
	50N	27W	29.50	NNW	1-3	bc	-	-	-	-				-			
	50N	24W	29.60	NW	1-3	-	-	-	-	-				-			
	50N	23W	29.62	WNW	1-3	c	-	-	-	-				-			
	51N	19W	29.63	SSW	1-3	-	-	-	-	-				-			
	51N	17W	29.59	SSW	4-5	o	-	-	-	-				-			
	51N	15W	29.80	W	4-5	-	-	-	-	-				-			
	51N	16W	29.72	SSW	4-5	c	-	-	-	-				-			
	50N	14W	29.56	SSW	2-4	-	-	-	-	-				-			
	50N	15W	29.55	SSW	2-4	o	-	-	-	-				-			

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METEOROLOGICAL OFFICE,  
68, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)

SCANDINAVIA.

ICELAND & FAEROE.

BRITISH ISLANDS.

GERMANY, &c.

FRANCE.

SPANISH PENIN.



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

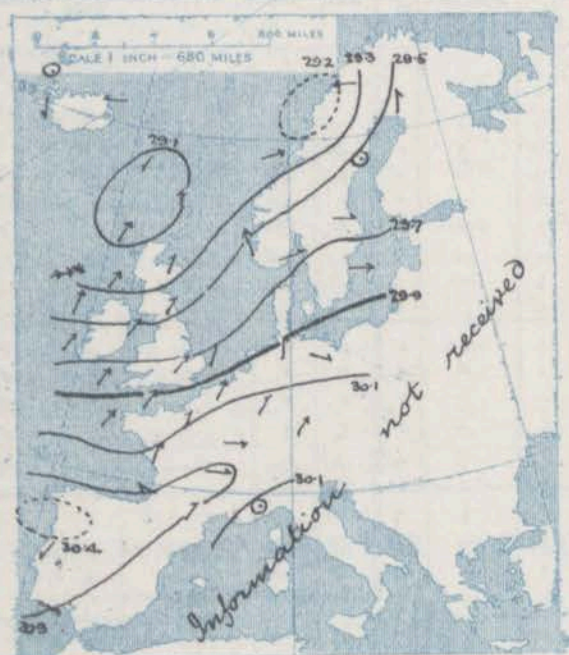
Monday  
27 Dec 1909

STATIONS.		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.						
		BAROM.		TEMP.		WIND.	Force (0 to 12).	Weather.	BAROMETER.		TEMPERATURE.			WIND.		Force (0 to 12).	Weather.	Sea (0 to 9).	TEMP.		Weather.	Sun-shine.	Rainfall.
		At 82° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Wet Bulb.	Direc.				At 82° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Max.				Min.				
SCANDINAVIA.	Haparanda...	29.39	23	S	4	S	29.32	-.25	24	24	+14	SSE	4	0	0	7.24	5	0	0	0	0	0.12	
	Hernösand...	29.50	42	S	4	0	29.25	-.31	33	32	+8	S	6	5	0	7.42	18	0	0	0	0		
	Stockholm...	29.70	33	SW	2	0	29.45	-.21	35	35	+2	S	6	7	0	7.35	23	0	0	0	0		
	Wisby...	29.73	34	SSE	4	0	29.72	-.04	36	36	-2	SSE	4	7	0	3.9	30	0	0	0	0.08		
	Karlstad...	29.57	35	SW	4	0	29.30	-.40	36	36	+19	SW	2	7	0	0	0	0	0	0	0.16		
	Færder (X'lania Fjord)	29.45	33	SSW	4	m	29.25	-.38	37	37	+6	W	2	m	3	3.7	731	0	0	0	0.04		
	Bodö...	29.23	26	E	2	6	29.00	-.18	30	27	+2	E	4	0	1	7.30	25	0	0	0	0		
	Christiansund	29.03	41	SW	4	0	29.23	-.05	38	36	-3	W	6	m	4	41	37	0	0	0	0.12		
Skudesnaes	29.20	42	SSE	8	7	29.20	-.22	40	39	0	NNW	4	7	3	43	39	0	0	0	0.23			
ICELAND & FAEROE.	Isafjord...	29.06	13	W	7	C	29.45	+1.22	5	0	-5	W	1	6	0	0	0	0	0	0	0		
	Reykjavik...	29.14	23	SE	6	0	29.48	+1.31	14	0	-7	N	2	6	0	0	0	0	0	0	0		
	Seydisfjord...	29.23	17	WNW	3	6	29.43	+1.21	12	0	-8	W	3	6	0	0	0	0	0	0	0		
	Thorshavn...	29.18	33	NNW	3	6	29.48	+1.43	39	0	+4	W	3	0	0	0	0	0	0	0	0		
BRITISH ISLANDS.	Sumburgh Head	28.90	45	SSW	6	0	29.52	+1.42	37	33	-3	NW	1	6	3	46	29	7.0	0	0	0.21		
	Stornoway...	29.30	41	WNW	3	C	29.66	+1.65	32	31	-17	NW	1	C	1	50	31	cpq. c	0.1	0.02			
	Castlebay (Barra Id.)	29.31	44	N	3	0	29.65	+1.52	41	38	-9	NE	1	6	2	50	38	cp. c. 6	0.1	0.18			
	Malin Head...	29.34	50	SW	4	0	29.63	+1.39	44	44	-4	ESE	3	7	3	51	44	bc. m. q. or	0	0.14			
	Blacksod Pt.	29.50	51	SSW	5	m	29.60	+1.17	49	49	-1	SW	3	0	2	51	47	0. om	0	0			
	Valencia...	29.72	53	SW	4	0	29.66	+1.01	51	51	0	SSE	3	7	4	53	50	0. om. om	0.0	0.20			
	Roche's Point...	29.74	51	W	2	0	29.74	+1.08	49	49	+1	SSE	1	7	4	51	48	bc. m. cp. m	0	0.09			
	Birr Castle...	29.62	51	W	5	0	29.68	+1.13	49	45	+1	SSW	1	0	0	52	47	0. om	0.0	0.04			
	Donaghadee...	29.49	51	SSE	2	C	29.65	+1.23	49	49	+2	SSW	2	7	2	53	46	om. bc. r	0	0.01			
	Liverpool Obsy...	29.64	49	SW	4	C	29.73	+1.17	49	47	0	SW	3	0	3	52	47	bc	4.2	0			
	Holyhead...	29.62	49	SW	5	C	29.74	+1.18	48	47	-1	WSW	3	6	3	50	46	0. c	0	0			
	Pembroke (St. Ann's Hd.)	29.74	49	SSW	4	f	29.78	+1.11	49	49	0	SW	2	fd	5	51	47	cgm. qm. fd	0.0	0.03			
GERMANY, & C.	Scilly (St. Mary's)	29.83	51	WSW	4	f	29.86	+1.04	50	49	+3	SSW	4	0	2	53	47	f	0.0	0.14			
	Jersey (St. Aubins)	29.94	50	W	4	7	29.94	+1.03	50	50	+2	SW	2	7	2	51	48	om. m. q. or	0.0	0.21			
	Portland Bill	29.82	49	WSW	4	C	29.93	+1.08	49	49	0	WSW	3	f	5	50	49	bc. c	1.6	0			
	Dungeness...	29.79	47	SW	4	0	29.83	+1.03	47	47	+1	W	3	0	3	48	46	cp. r. cp. f	0.0	0.06			
	Dover...	29.84	48	SW	4	0	29.84	+1.02	48	48	+3	SW	1	C	2	48	45	cp. r. cp. f	0.0	0.05			
	Wick...	29.25	40	W	3	C	29.63	+1.54	32	31	-9	2	0	6	3	45	31	0	0	0.02			
	Nairn...	29.28	42	W	1	C	29.63	+1.49	33	32	-9	SW	1	6	1	48	32	cq. c. cp	1.7	0.01			
	Aberdeen...	29.28	44	WNW	1	0	29.66	+1.43	34	33	-5	WNW	1	6	2	46	34	c. bc. cp. b	0.8	0.04			
FRANCE.	Leith...	29.29	50	SW	6	C	29.65	+1.40	37	37	-10	SE	1	C	0	52	37	cp. q	0	0.22			
	North Shields	29.44	50	SW	4	C	29.67	+1.24	42	42	+3	N	4	7	3	52	33	c. r	1.2	0.03			
	Spurn Head...	29.59	45	SW	4	0	29.66	+1.12	44	43	+2	WSW	4	C	3	48	41	C. o. c	0	0			
	Yarmouth...	29.67	47	SW	4	bc	29.75	+1.04	45	45	+2	SW	3	6	4	51	41	7.45	0	0			
	Clacton-on-Sea...	29.75	43	SW	2	bc	29.80	+1.04	45	44	+3	SW	2	C	2	46	42	op. bc	1.0	0			
	Nottingham...	29.67	48	SW	3	C	29.74	+1.14	47	46	+1	WSW	3	6	0	52	45	bc. c. cp	3.8	0			
	Bath...	29.78	46	W	2	0	29.83	+1.12	50	50	0	2	0	0	52	33	0	0.0	0.01				
	Oxford...	29.79	48	SW	6	0	29.84	+1.12	50	49	+2	SW	3	0	0	53	47	vq. b. o	0	0			
SPANISH PENINS.	London (St. James's Pk)	29.78	50	SW	2	bc	29.81	+1.06	50	49	+4	WNW	3	C	0	53	45	0. bc. c	0.5	0.01			
	The Scaw (Skagen)	29.46	39	S	5	7	29.34	-.36	41	41	+6	W	3	C	1	41	36	0	0	0.08			
	Fanö...	29.52	42	SW	6	7	29.50	-.27	42	42	+6	SW	6	7	0	42	36	0	0	0.12			
	Cuxhaven...	29.67	41	SW	5	0	29.64	-.23	44	43	+9	SW	6	0	0	44	35	0	0	0.20			
	The Helder...	29.71	43	SW	4	C	29.66	-.14	45	44	+5	W	4	C	3	45	39	0	0	0.32			
	Brussels...	29.86	46	SW	4	0	29.86	-.13	46	46	+5	WSW	2	7	0	47	39	0	0	0.04			
	Berlin...	29.88	38	SW	3	0	29.79	-.21	42	42	+9	SW	3	7	0	43	33	0	0	0.02			
	Frankfurt...	29.98	43	SW	3	0	29.96	-.13	43	42	+7	SW	5	0	0	43	36	0	0	0.04			
GERMANY, & C.	Munich...	30.13	38	SW	4	0	30.09	-.13	39	60	+5	W	2	0	0	39	34	0	0	0			
	C. Gris Nez...	29.83	46	SW	5	0	29.86	-.01	47	47	+3	SW	4	f	4	47	44	0	0	0.20			
	La Hève...	30.02	47	SW	4	0	29.94	-.09	48	46	+3	SW	3	0	4	51	39	0	0	0.04			
	Brest...	29.98	52	SW	4	f	29.96	+1.05	52	52	+2	WSW	5	f	5	52	50	0	0	0.16			
	Lorient...	?	52	W	5	m	?	?	52	52	+3	W	5	m	6	52	49	0	0	0.59			
	Rochefort...	30.06	53	W	4	7	30.06	-.04	54	54	+12	SW	5	7	0	54	46	0	0	0.79			
	Biarritz...	30.28	57	WSW	4	7	30.24	-.00	57	57	+11	3	2	0	2	57	46	0	0	0.04			
	FRANCE.	Paris...	30.01	42	SW	3	0	29.98	-.12	47	47	+6	S	2	0	0	47	41	0	0	0		
Belfort...		30.19	39	WSW	4	0	30.15	-.11	38	37	+4	W	4	0	0	40	34	0	0	0			
Lyons...		30.26	38	E	1	0	30.23	-.09	40	39	+7	WSW	1	0	0	44	33	0	0	0.04			
Nice...		30.03	46	2	0	0	30.17	+1.11	46	41	+1	2	0	6	1	57	41	0	0	0			
Perpignan...		30.19	53	NW	1	0	30.21	-.04	59	55	+23	NW	3	0	0	59	736	0	0	0			
Sauguinare...		30.19	52	W	2	m	30.15	0	49	45	0	E	3	6	5	59	43	0	0	0			

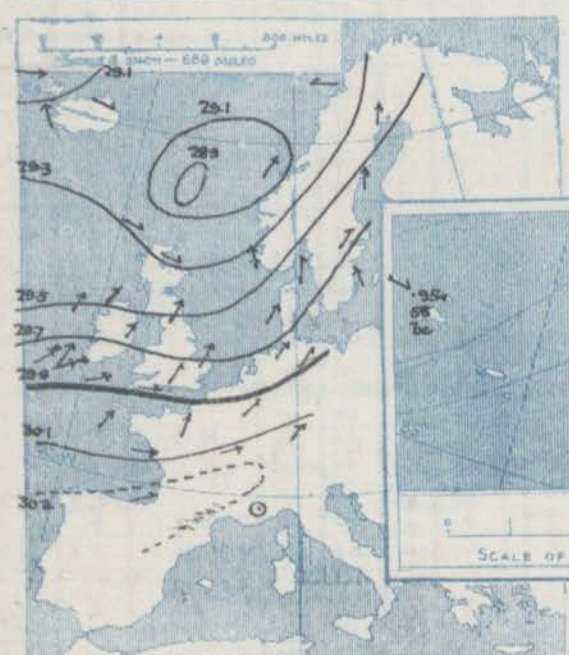


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A.M. YESTERDAY.

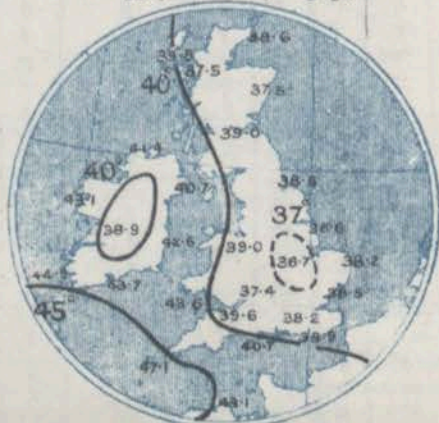


6 P.M. YESTERDAY.



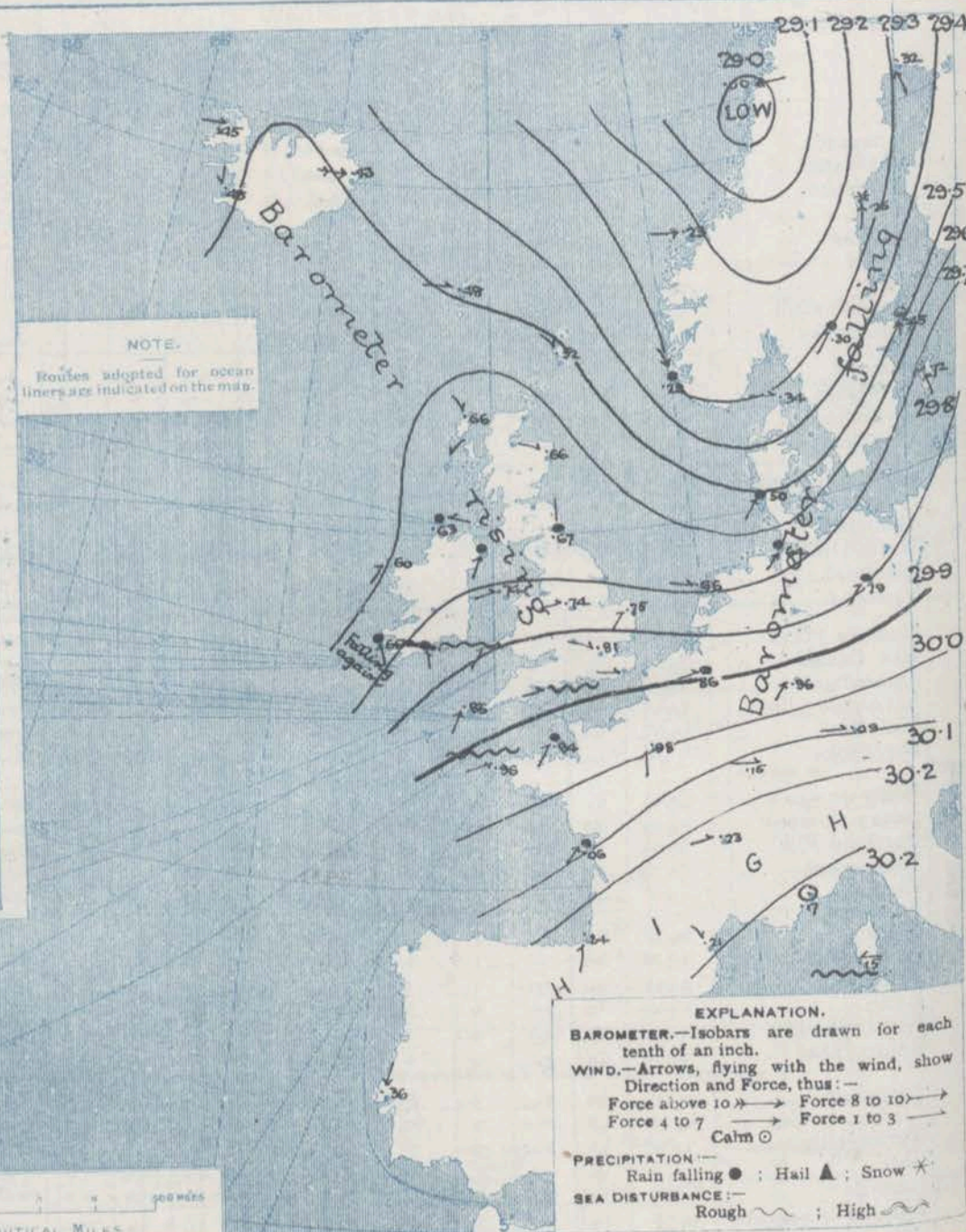
AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
DECEMBER - JANUARY.

(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Monday WEATHER 27<sup>th</sup> Dec:

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

The depression of yesterday has moved north-eastwards, and is now over the north of Norway, where the barometer is below 29 ins. A quick recovery of pressure has taken place in its rear over Scotland and the north of England and Ireland, but a fresh fall of the mercury has set in at Valencia during the night. The highest pressure, 30.2 ins. and above, is found over the south of France.

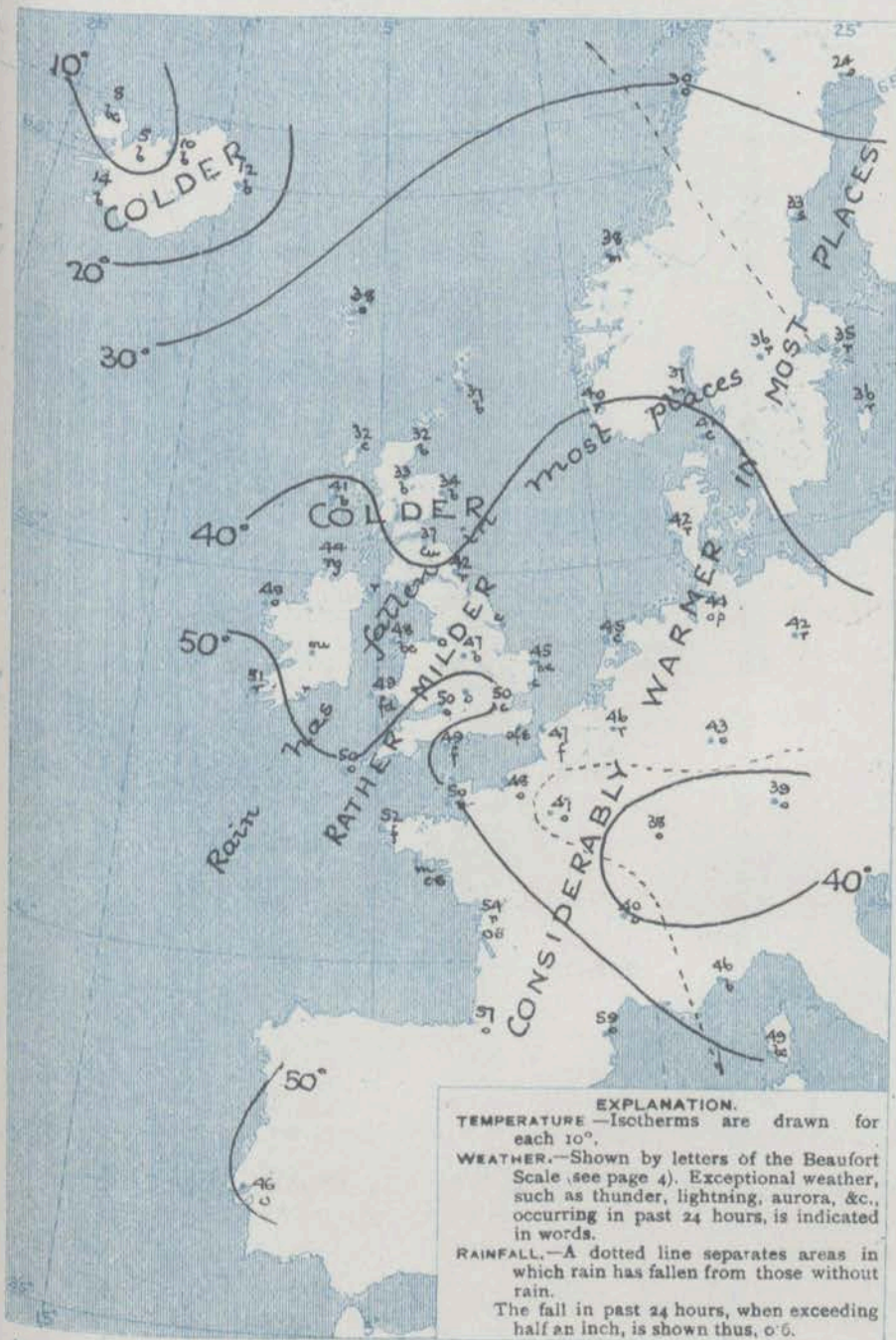
The wind is southerly in Ireland, south-westerly to westerly in most parts of Great Britain and the nearer regions of the Continent, and southerly in Sweden. Over the United Kingdom it has little force, but is strong in Denmark, over the Baltic and the Gulf of Bothnia. At Seydisfjörður a westerly gale is reported. Temperature has fallen in Iceland, risen generally elsewhere. Over these Islands it ranges from 50° in London and at Bath, and 51° at Valencia to 42° at North Shields, and to 32° at Vicks. Rain is falling at several of our western stations, and at Jersey and North Shields, as well as at Rochefort, in north Germany, Denmark, and the south of Scandinavia, and snow at Helsingfors. In Iceland and some parts of England the weather is fair to fine, while in Iceland the sky is almost cloudless. Fog prevails on several parts of our south-western and southern coasts.



# CHARTS

27th December 1908

## 2. TEMPERATURE AND WEATHER AT 7 A.M TO DAY.



### NOTES ON YESTERDAYS WEATHER

During yesterday temperature rose to above 50° over the greater part of the Kingdom, and the minima of the night were high in nearly all parts of England and Ireland. Rain has fallen in most parts of these Islands, but not in large quantities. More than four hours of bright sunshine were recorded at Liverpool and 3.8 hours at Nottingham. Elsewhere the records were mostly very slight, and in several places the day was sunless. Various reports from the Atlantic show that steamers experienced moderate to strong southerly breezes as far west as the 25th meridian.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The fall of the barometer at Valencia indicates that the cyclonic type of conditions, with the wind between West and South, is likely to continue over the United Kingdom for the present.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- |    |   |  |
|----|---|--|
| 0  | a | Wind backing to West or South, light or moderate to fresh; fine then some rain, becoming milder.   |
| 1  | b |  |
| 2  | a | Wind mainly between West and South, West, light to moderate or fresh; changeable some rain, fair intervals; local mist and fog on coast; mild. |
| 3  | b |  |
| 4  | a | Southerly and South Westerly winds, increasing in force; changeable, rain at times, local mist and fog on coast; mild.                         |
| 5  | b |  |
| 6  | a | Southerly and South Westerly winds, increasing in force; changeable, some rain, mist and fog, and moderate to rather rough.                    |
| 7  | b |  |
| 8  | a |  |
| 9  | b |  |
| 10 | a |  |
|    | b |  |

### 11 WESTERN CHANNEL AND BAY.

Southerly and South Westerly winds, increasing in force; changeable, some rain, mist and fog, and moderate to rather rough.

### FORECAST DISTRICTS.

Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

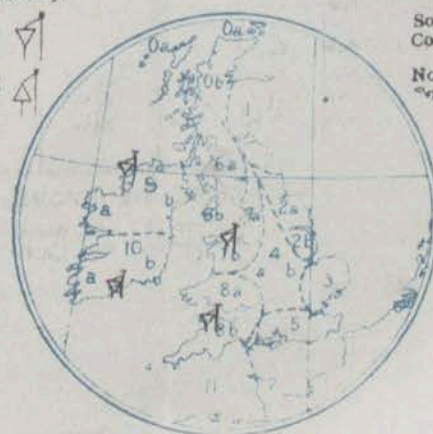
Signals hoisted this morning.

South Cone.

South Cone.

North Cone.

North Cone.





# DAILY WEATHER REPORT.

Monday, 27th December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	50	37	c. b.	0.0	0.81	Worthing, to 6 p.m. ...	47	35	"	0.0	0.12
Dublin (City), to 4 p.m.	53	40	c. org. b. c.	"	0.08	Brighton, to 6 p.m. ...	48	37	"	0.0	0.05
Rossall Beach, to 6 p.m.	45	36	ov. c.	"	0.30	Seaford, to 6 p.m. ...	43	35	"	0.0	0.13
Blackpool, to 9 p.m. ...	48	36	r. o.	0.2	0.26	Eastbourne, to 6 p.m. ...	49	36	"	0.0	0.10
Southport, to 6 p.m. ...	48	37	"	1.0	0.39	Bexhill-on-Sea, to 9 p.m.	48	36	"	0.0	0.06
Rhyl, to 6 p.m. ...	52	34	b. bc. r. c.	2.2	0.09	Hastings ...	"	"	"	0.0	"
Colwyn Bay, to 6 p.m. ...	54	43	bc	2.0	0.12	Folkestone, to 6 p.m. ...	47	32	bc. of r. o.	0.0	0.03
Llandudno, to 9 p.m. ...	53	39	ov. c. bc. o.	1.6	0.05	Ramsgate, to 6 p.m. ...	"	"	"	0.5	0.04
Bettws-y-Coed, to 6 p.m.	"	"	"	"	"	Margate, to 6 p.m. ...	47	40	"	0.1	"
Towyn, to 6 p.m. ...	48	40	r. o.	0.0	0.22	Felixstowe, to 6 p.m. ...	"	"	"	"	"
Aberystwyth, to 6 p.m. ...	48	39	"	0.0	0.13	Lowestoft, to 6 p.m. ...	50	33	c. o. cp. c.	1.2	0.14
Plymouth, to 9 p.m. ...	"	"	"	"	"	Skegness, to 6 p.m. ...	52	41	r. bc	1.9	0.17
Paignton, to 6 p.m. ...	53	38	c. o.	1.0	0.09	Scarborough, to 9 p.m. ...	50	33	"	0.3	"
Torquay, to 6 p.m. ...	54	43	"	2.5	0.09	Harrogate, to 6 p.m. ...	48	31	bc. op. c.	1.5	0.13
Weymouth, to 6 p.m. ...	52	40	c. bc. b.	1.6	0.06	Buxton, to 6 p.m. ...	"	"	"	"	"
Bournemouth, to 6 p.m. ...	52	37	o. c. bc	1.0	0.10	Darwen, to 9 p.m. ...	"	"	"	"	"
Southsea, to 6 p.m. ...	53	39	"	1.9	0.01	Manchester, to 9 p.m. ...	"	"	"	"	"
Bognor, to 6 p.m. ...	"	"	"	"	"	Birmingham, to 9 p.m. ...	52	36	b. c. o.	4.3	0.06

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	"	"	"	Ins.	Utrecht ...	"	"	"	Ins.
Marseilles ...	Observations not received.				Groningen ...	"	"	"	"
Malta ...					Zurich ...	"	"	"	"
Algiers ...					Geneva ...	"	"	"	"
Tunis ...					Lugano ...	"	"	"	"
Palermo ...					Berne ...	25th Dec. 1909.	1.00 p.m.	1.00 p.m.	Measured 7.30 a.m.
Naples ...					Coire ...	Observations not received.			
Brindisi ...					Castasegna ...				
Rome ...					Davos ...				
Vienna ...	Observations not received.								
St. Petersburg ...									

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dirac.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Dirac.	Force.	
New York { Dec. 25 4 a.m.	51 N	24 W	29.42	SSE	6-7	-	"	"	"	"	Montreal { Dec. 26 3 p.m.	51 N	11 W	29.58	SW	4-5	"
" { " 7 a.m.	50 N	25 W	29.14	SSE	6-7	r	"	"	"	"	" { " 6 p.m.	51 N	12 W	29.52	SW	4-5	"
Caledonia { Dec. 26 4 a.m.	56 N	10 W	29.06	SSW	8-9	-	"	"	"	"	Umbria { Dec. 26 3 p.m.	51 N	9 W	29.78	WSW	4-5	"
" { " 7 a.m.	55 N	11 W	29.02	SW	8-9	o	"	"	"	"	" { " 6 p.m.	51 N	11 W	29.79	WSW	4-5	"
Minneapolis { Dec. 26 1 a.m.	50 N	25 W	29.59	SSW	4-5	"	"	"	"	"							
" { " 7 a.m.	50 N	20 W	29.36	SSW	4-5	? o	"	"	"	"							
California { Dec. 26 10 a.m.	55 N	11 W	29.16	SW	6-7	-	"	"	"	"							
" { " 1 p.m.	55 N	10 W	29.21	SW	6-7	r	"	"	"	"							
Mauretania { Dec. 26 4 a.m.	50 N	27 W	29.38	SSW	6-7	-	"	"	"	"							
" { " 7 a.m.	50 N	25 W	29.40	SSW	6-7	c	"	"	"	"							
" { " 3 p.m.	51 N	19 W	29.55	SSW	6-7	-	"	"	"	"							
" { " 6 p.m.	51 N	17 W	29.64	SW	4-5	o	"	"	"	"							

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1.—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.51 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.
- \* Information for these columns is not usually received.
- † The figures in the "wet bulb" column represent the relative humidity.
- ‡ Received too late for insertion in Charts.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
33, VICTORIA STREET, S.W.  
W. N. SHAW, (Director.)

SCANDINAVIA.

ICELAND & FAEROE.

BRITISH ISLANDS.

GERMANY, & C.

FRANCE.

SPANISH PENIN.

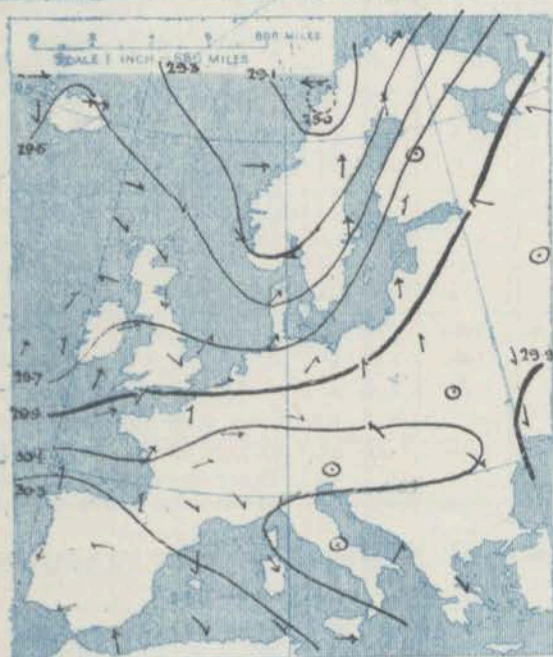


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SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A.M. YESTERDAY.

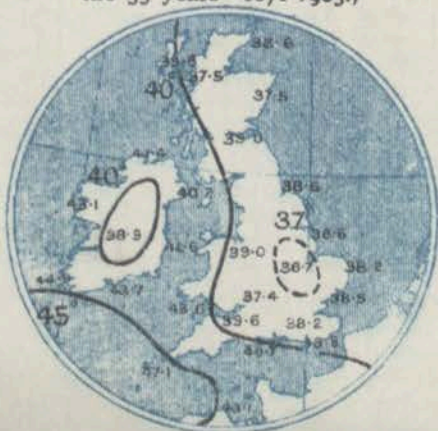


6 P.M. YESTERDAY.



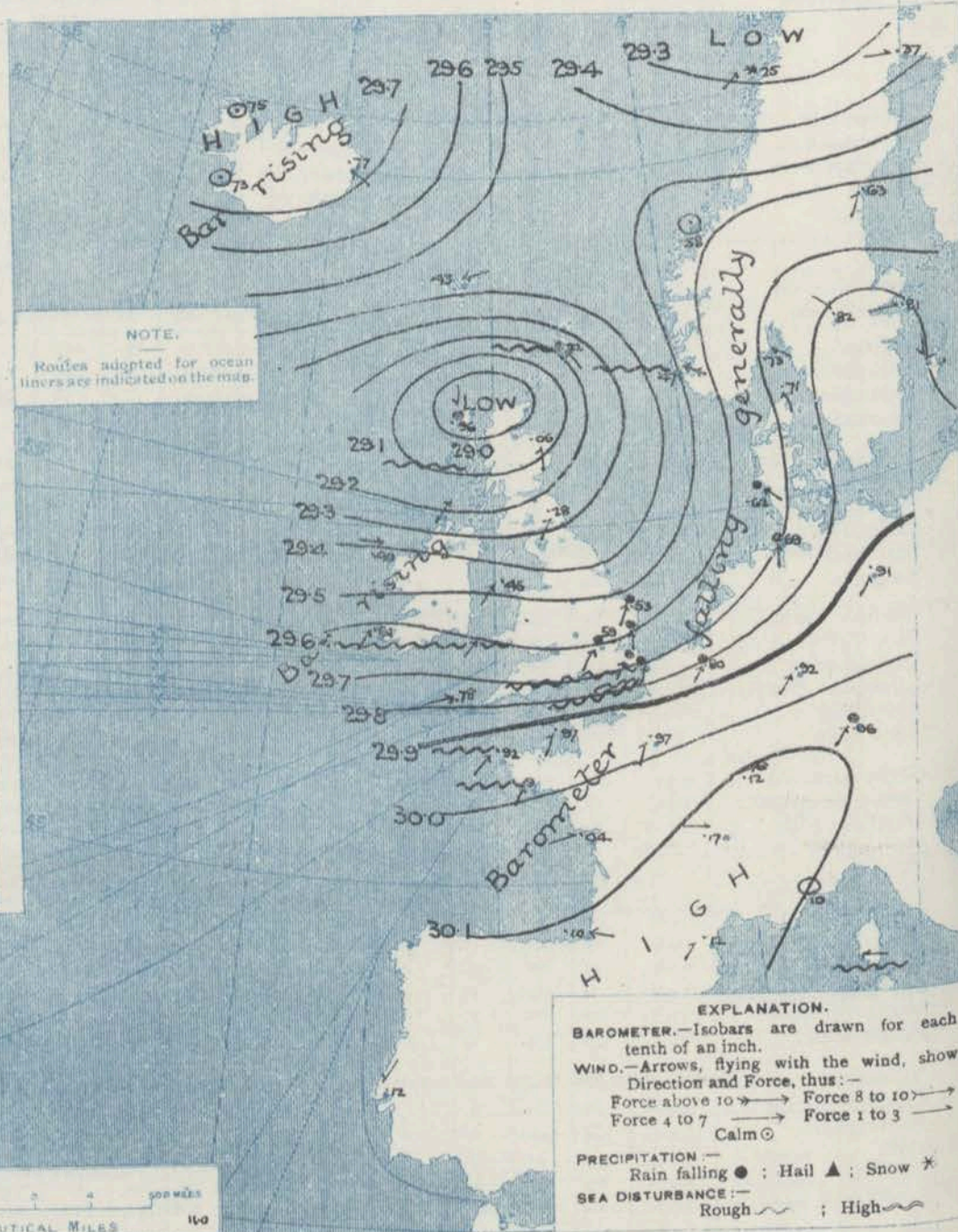
AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
DECEMBER - JANUARY.

(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Tuesday, WEATHER 28<sup>th</sup> Dec:

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

The central portion of a rather deep depression has arrived over the north of Scotland from the south westward, and the barometer is as low as 28.9 ins. at Wick and 28.96 ins. at Stromway. To the southward the readings increase to about 30.1 ins. over the south of France.

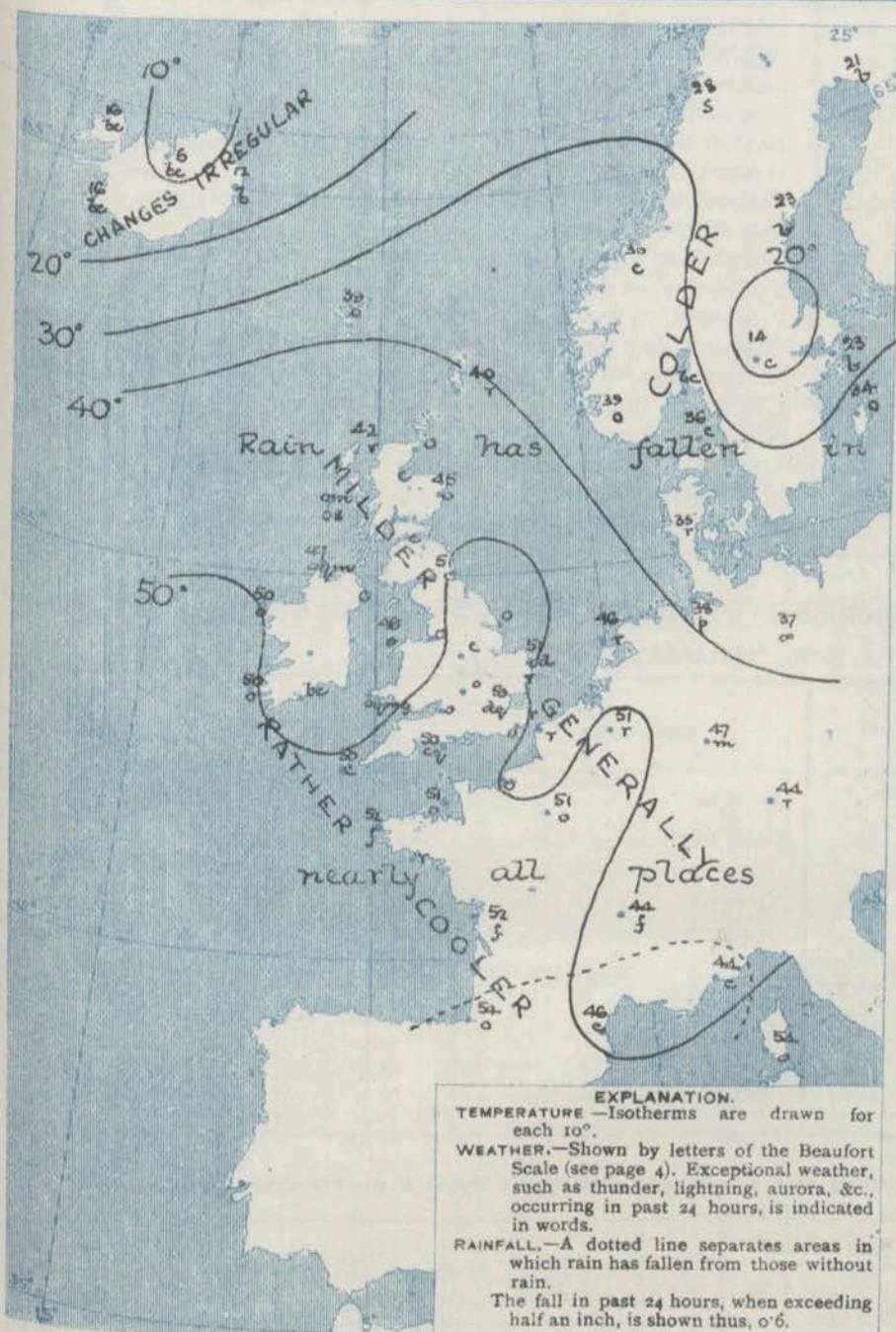
The S.W. to W. wind current prevailing over Ireland and England is high on several parts of the west and south coasts, but strong to moderate in force generally. In Scotland there is little wind, but at Dunburgh Head there is a strong breeze from S.E. and at Skudesnaes a gale from that quarter. Temperature has risen in most localities. Over these islands it ranges from 53° in London and about 50° over a very large area to about 42° in the north of Scotland, and to 40° in Shetland.

The sky is cloudy or overcast in almost all parts of our area, with occasional rain in most places, and snow at Bodö. At most of the Swedish stations the sky is cloudless.



# CHARTS 28<sup>th</sup> December, 1909

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



## NOTES ON YESTERDAY'S WEATHER.

During yesterday the temperature was as high as 56° at Valencia and 55° at Bath, and 54° at some other stations. The minima of the night were very high for the time of year over England and Ireland. Rain has fallen over the whole Kingdom, the measurements being slight generally, but more than 0.3 inch at some stations in the north-west of England, 0.5 inch at Blacksod Point, and as much as 0.75 inch at Castlebay. At most stations yesterday was overcast, but at Aberdeen and Naism the sunshine records exceeded 2.5 hours.

## GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

There are no indications of any great modification in the general character of the weather. The distribution of pressure over these islands and north-western Europe continuing favourable for the advance of cyclonic systems from the Atlantic.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- 0 { a } Variable to W. winds, strong at times;  
b } squally, some showers; moderate to rather low temperature.
- 1 { a } S.W. and W. winds, fresh at times;  
b } changeable, some showers; temperature continuing above the normal.
- 2 { a } S.W. and W. winds, high or strong to moderate; changeable, some showers;  
b } temperature continuing above the normal.
- 3 { a } S.W. and W. winds, high or strong to moderate; changeable, some showers;  
b } temperature continuing above the normal.
- 4 { a } S.W. and W. winds, high or strong to moderate; changeable, some showers;  
b } temperature continuing above the normal.
- 5 { a } S.W. and W. winds, high or strong to moderate; changeable, some showers;  
b } temperature continuing above the normal.
- 6 { a } W. winds, fresh or strong to moderate;  
b } changeable, showery; cooler.
- 7 { a } W. winds, fresh or strong to moderate;  
b } changeable, showery; cooler.
- 8 { a } W. winds, fresh or strong to moderate;  
b } changeable, showery; cooler.
- 9 { a } W. winds, fresh or strong to moderate;  
b } changeable, showery; cooler.
- 10 { a } W. winds, fresh or strong to moderate;  
b } changeable, showery; cooler.

## 11 WESTERN CHANNEL AND BAY.



High to strong and moderate S.W. and W. winds; sea rather rough, moderating later; squally, showery, some mist or fog.

## FORECAST DISTRICTS.

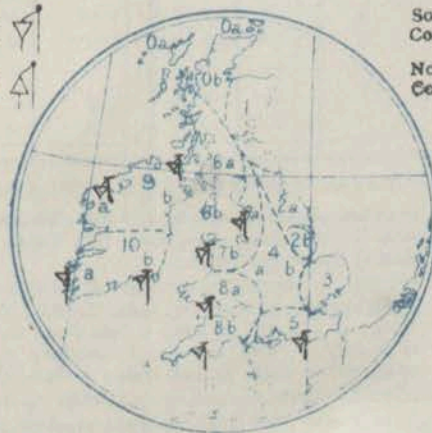
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

Signals hoisted this morning.

South Cone.   
North Cone. 

South Cone.   
North Cone. 





# DAILY WEATHER REPORT.

Tuesday 28th December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	50	33	bc. o	0.0	0.48	Worthing, to 6 p.m. ...	49	46	mr. fr	0.0	0.03
Dublin (City), to 4 p.m. ...						Brighton, to 6 p.m. ...	47	46		0.0	0.02
Rossall Beach, to 6 p.m. ...	48	42	o. c. o		0.10	Seaford, to 6 p.m. ...	48	46	f. o. r	0.0	0.02
Blackpool, to 9 p.m. ...	49	45	o. o		0.15	Eastbourne, to 6 p.m. ...	49	46		0.0	0.02
Southport, to 9 p.m. ...	50	45	o. c. o	0.0	0.26	Bexhill-on-Sea, to 9 p.m. ...	50	46	fd. fa	0.0	
Rhyl, to 6 p.m. ...	52	46	bc. o	0.0	0.15	Hastings ...				0.0	
Colwyn Bay, to 6 p.m. ...	54	45	b. bc. d. c	0.0	0.14	Folkestone, to 6 p.m. ...	48	45	c. o. f. r	0.0	0.02
Llandudno, to 9 p.m. ...						Ramsgate, to 6 p.m. ...				0.0	
Bettws-y-Coed, to 6 p.m. ...						Margate, to 6 p.m. ...	50	36		0.0	0.02
Towyn, to 6 p.m. ...	52	46	om. r. o	0.4		Felixstowe, to 6 p.m. ...	48	42		0.0	
Aberystwyth, to 6 p.m. ...	53	47		0.0	0.20	Lowestoft, to 6 p.m. ...					
Plymouth, to 9 p.m. ...	53	50	od	0.0		Skegness, to 6 p.m. ...	49	42	c. bc. r	0.7	0.02
Paignton, to 6 p.m. ...	54	50	cp. d	0.0	0.03	Scarborough, to 9 p.m. ...	50	42		0.0	0.02
Torquay, to 6 p.m. ...	53	48		0.0	0.02	Harrogate, to 6 p.m. ...	44	41	o. bc. o. r	0.1	0.06
Weymouth, to 6 p.m. ...	52	48	f. m	0.0	0.02	Buxton, to 6 p.m. ...	47	45	c. o. c. om	0.0	0.38
Bournemouth, to 6 p.m. ...	51	46	od	0.0	0.02	Darwen, to 9 p.m. ...	48	45	om. o	0.0	
Southsea, to 6 p.m. ...	51	46		0.0	0.03	Manchester, to 9 p.m. ...					
Rognor, to 6 p.m. ...						Birmingham, to 9 p.m. ...	51	45	o	0.0	0.23

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ... 27th Dec. 1909	0	0		Ins.	Utrecht ... 27th Dec. 1909	0	0		Ins.
Marseilles ...	46	39	b. b		Groningen ...	46	39	m. o	0.16
Malta ...	64	55	c		Zurich ...			c. bc	
Algiers ...	64	52	bc. b		Geneva ...			o. o	0.04
Tunis ...	66	43	bc. c		Lugano ...			o. b	0.04
Palermo ...					Berne ... 26th Dec. 1909, 1.30 p.m.				Measured 7.50 a.m.
Naples ...	53	52	o. o	0.12	Coire ...				
Brindisi ...	59	48	bc. o		Castasegna ...				
Rome ...	60	50	c. o		Davos ...				
Vienna ...	39	36	o. o						
St. Petersburg ...	16	9	c. f	0.04					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Air.	Wet Bulb.	Dry Bulb.			Lat.	Long.		Dir.	Force.	
Albatross { 7th Dec. 1909	51N	15W	29.64	S	4-5	-											
" " 7th	51N	16W	29.43	ESE	8-9	-											
Albatross { 10th	50N	10W	29.70	SW	6-7	-											
" " 14th	50N	11W	29.65	SW	6-7	-											
Albatross { 14th	51N	14W	29.54	SW	4-5	-											
" " 17th	51N	15W	29.62	SW	4-5	0											

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1.—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.51 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 6 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

‡ Received too late for insertion in Charts.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

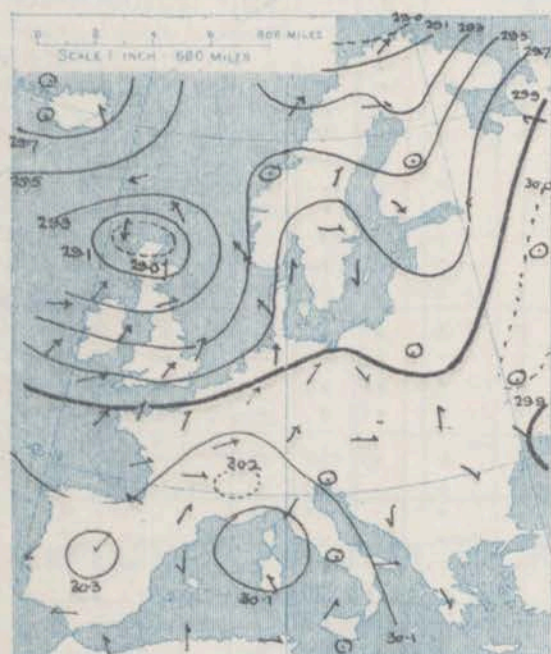
Wednesday  
29th December, 1909.

STATIONS.		YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.				
		Barom.	Temp.	Wind.		Weather.	Barometer.		Temperature.			Wind.		Sea (0 to 9).	Temp.		Weather.	Sun. shine.	Rainfall.		
				Force (0 to 12).			At 82° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Dirac.	Force (0 to 12).		Max.	Min.					
		Ins.	"	Dirac.			Ins.	Ins.	"	"	"	Dirac.	Force (0 to 12).			"	"		Hours.	Ins.	
SCANDINAVIA.	Haparanda...	29.34	24	NW	2	C	29.53	+7.21	15	15	-6	W	2	0	*	36	315	*	*	-	
	Hernösand...	29.54	27	S	2	C	29.58	-0.05	25	24	+2	Z	0	S	*	30	19	*	*	0.04	
	Stockholm...	29.58	32	SE	2	0	29.32	-1.49	34	34	+11	E	2	m	*	36	23	*	*	0.08	
	Wisby...	29.53	34	E	2	C	29.20	-1.60	36	35	+2	SE	2	f	*	39	30	*	*	-	
	Karlstad...	29.46	27	E	4	S	29.34	-1.48	25	24	+11	ENE	4	0	*	34	28	*	*	0.08	
	Færder (X'lantia Fjord)	29.36	33	ENE	4	S	29.42	-1.31	30	30	-3	N	6	0	2	34	28	*	*	-	
	Bodö...	29.26	27	Z	0	C	29.66	+4.41	34	31	+6	NW	3	C	2	734	27	*	*	-	
	Christiansund	29.47	35	NE	3	0	29.74	+1.16	32	30	-4	W	1	C	4	36	30	*	*	0.16	
Skudenes	29.23	37	NE	4	r	29.69	+1.22	36	32	-3	NNW	8	C	4	39	32	r	*	0.43		
ICELAND & FAEROE.	Isafjord...	29.86	13	Z	0	b	29.36	-1.39	30	*	+14	E	5	S	*	*	*	*	*	*	
	Reykjavik...	29.79	17	NE	1	0	29.24	-1.49	37	*	+24	SE	7	r	*	*	*	*	*	*	
	Seydisfjord...	29.91	13	W	4	b	29.85	+0.05	19	*	+7	Z	0	0	*	*	*	*	*	*	
	Thorshavn...	29.77	28	ENE	5	0	30.07	+6.4	28	*	-11	Z	0	0	*	*	*	*	*	*	
BRITISH ISLANDS.	Sumburgh Head	29.46	39	NE	6	bc	29.94	+7.72	32	31	-8	N	4	C	4	340	25	r. bc	*	0.26	
	Stornoway...	29.66	40	N	5	C	30.11	+1.15	35	33	-7	NNE	1	0	1	44	33	ed. q. dr. ed.	0.1	0.05	
	Castlebay (Barra Id.)	29.69	44	NNW	4	b	30.10	+1.15	36	36	-10	NNE	1	0	1	48	38		0.7	0.14	
	Malin Head...	29.64	45	NW	7	mp	30.07	+0.94	40	40	-7	SW	1	bc	1	48	40	ogr. on. bc	*	0.26	
	Blacksod Pt.	29.79	48	W	3	omr	30.07	+0.67	45	44	-5	NNW	2	C	2	50	43	omr. bc	*	0.12	
	Valencia...	29.90	50	WNW	6	og	30.13	+0.52	47	44	-3	SW	1	0	4	51	45	og. o	0.1	0.07	
	Roche's Point...	29.84	49	W	4	C	30.15	+0.55	46	45	-3	E	1	0	3	51	46	bc. cp. c. o	*	0.02	
	Birr Castle...	29.76	48	WSW	4	0	30.14	+0.66	39	38	-9	SSE	1	0	*	50	34	o. of	0.3	0.02	
	Donaghadee...	29.55	46	WNW	4	C	30.10	+0.80	38	38	-10	W	3	b	2	48	37	omr. bc	*	0.15	
	Liverpool Obsy...	29.48	46	WSW	6	0	30.10	+0.64	39	37	-10	N	2	b	2	50	39	b. or. o	2.7	0.15	
	Holyhead...	29.58	47	WNW	8	bcq	30.09	+0.63	42	40	-6	NE	2	b	2	49	40	omr. bc	6	0.02	
	Pembroke (St. Ann's Hd.)	29.71	48	WSW	6	0	30.09	+0.50	43	42	-6	NW	3	bc	5	50	42	ogr. cap. og	1.0	-	
	Scilly (St. Mary's)	29.90	50	W	6	C	30.12	+0.34	49	46	-1	N	4	C	3	53	47	ogr. of. bc. om	4.5	0.02	
	Jersey (St. Aubins)	29.88	48	W	5	bc	30.09	+0.12	48	45	-3	NW	4	C	3	52	47	ogr. of. bc. om	1.5	0.22	
	Portland Bill...	29.70	50	W	5	C	30.05	+0.36	49	48	-1	NW	2	b	4	50	49	bc. c	1.8	-	
	Dungeness...	29.61	48	WSW	5	0	29.97	+0.33	44	43	-6	NNW	5	r	5	50	43	cap. cap	0.0	0.03	
	Dover...	*	*	*	*	*	30.02	+0.34	42	40	-8	NNW	5	0	2	51	41	of. oc	7	0.01	
	Wick...	29.50	42	N	5	C	30.09	+1.13	35	34	-8	N	2	C	2	45	34	-	*	0.02	
	Nairn...	29.54	41	N	2	C	30.07	+1.06	36	34	-6	NE	1	C	1	47	34	eg. o. c	1.1	0.05	
	Aberdeen...	29.37	42	NNW	5	0	30.08	+1.02	36	33	-9	NW	3	0	3	46	36	bc. eg. of. og	2.1	0.05	
	Leith...	29.35	45	NNW	3	r	30.08	+0.93	38	36	-11	W	1	C	*	51	36	c. bc. of. c	*	0.02	
	North Shields...	29.28	45	SW	3	C	30.07	+0.79	39	38	-12	NW	3	C	3	52	36	c	0.7	0.02	
	Spurn Head...	29.83	45	W	6	0	29.95	+0.57	42	40	-8	NNW	5	C	6	53	38	bc. of. m. of. og	*	0.06	
Yarmouth...	29.47	49	SW	4	bc	29.91	+0.38	43	40	-8	N	5	bc	5	53	42	od. bc. bc	2.0	0.05		
Clacton-on-Sea...	29.54	47	WSW	4	bc	29.95	+0.38	42	40	-6	NW	3	0	3	51	42	og. bc. of. og	0.0	0.02		
Nottingham...	29.46	48	WNW	5	r	30.05	+1.58	40	39	-12	N	3	b	*	52	40	c. or. c	0.5	0.05		
Bath...	29.66	50	W	7	0	30.11	+0.47	38	37	-14	Z	0	m	*	52	37	-	1.2	-		
Oxford...	29.63	48	WSW	6	0	30.11	+0.48	39	37	-12	N	2	b	*	51	39	c. q	*	-		
London (St. James's Pk)	29.58	50	WSW	5	og	30.03	+0.44	44	41	-9	WNW	4	C	*	54	44	og. bc. c. o	0.5	0.02		
GERMANY, & C.	The Scaw (Skagen)	29.25	40	SSW	3	r	29.38	-0.33	32	32	-4	NNE	6	S	2	39	32	*	*	0.24	
	Fanö...	29.34	41	WSW	4	C	29.48	-0.14	35	37	+3	NNW	6	0	*	43	34	*	*	0.03	
	Cuxhaven†...	29.48	45	SW	4	0	29.45	-0.24	42	47	+4	W	2	C	*	48	38	*	*	0.55	
	The Helder...	29.47	45	SW	5	bc	29.71	+0.11	43	40	-3	N	7	C	3	46	43	*	*	0.16	
	Brussels...	*	*	*	*	*	29.91	+0.01	42	42	-9	WNW	4	r	*	53	41	*	*	0.63	
	Berlin†...	29.60	49	SW	2	r	29.49	-0.42	44	48	+7	SW	2	r	*	48	37	*	*	0.27	
	Frankfurt†...	29.69	49	SW	4	r	29.69	-0.23	43	39	-2	SW	6	C	*	52	45	*	*	0.32	
Munich†...	29.89	48	W	3	0	29.82	-0.23	42	36	-2	SW	6	C	*	50	39	*	*	0.16		
FRANCE.	C. Gris Nez...	29.64	46	SW	7	0	29.93	+0.24	44	41	-3	NW	6	0	6	50	43	*	*	0.08	
	La Hève...	29.78	46	W	6	bc	30.02	+0.08	46	44	-4	NW	2	bc	4	57	39	*	*	0.16	
	Brest...	29.49	51	W	4	C	30.17	+0.25	45	45	-4	NW	4	0	5	52	48	*	*	-	
	Lorient...	?	48	W	5	b	?	?	47	46	-5	WNW	4	C	5	52	45	*	*	0.20	
	Rochefort...	30.01	53	SW	3	f	30.14	+0.10	50	48	-2	WNW	2	0	*	54	46	f	*	-	
	Biarritz...	30.16	55	WSW	5	C	30.21	+0.11	54	53	0	SW	3	0	2	59	52	*	*	-	
	Paris...	29.85	48	SW	3	0	29.99	+0.02	48	45	-3	WNW	3	0	*	55	46	*	*	0.36	
	Belfort...	30.01	49	WSW	5	0	29.99	-0.13	41	40	-6	W	7	0	*	50	41	*	*	0.16	
SPANISH PENIN.	Lyons...	30.07	46	SSE	1	f	30.13	-0.04	44	39	0	NNW	2	b	*	50	44	*	*	0.08	
	Nice...	30.08	48	Z	0	0	29.84	-0.26	42	42	-2	E	2	b	1	54	41	*	*	-	
	Perpignan...	30.06	50	Z	0	bc	30.10	-0.02	52	48	+6	NW	2	b	*	60	45	*	*	-	
	Sanguinaire...	30.13	54	S	2	bc	30.06	-0.05	54	51	0	E	2	0	3	59	42	*	*	-	
	Corunna...	30.13	51	NNE	3	0	30.13	+0.01	48	48	+2	NNE	4	0	*	54	46	*	*	-	
	Lisbon...	30.24	51	SW	3	0	30.24	+0.03	55	52	-3	NW	1	b	2	63	55	*	*	0.05	

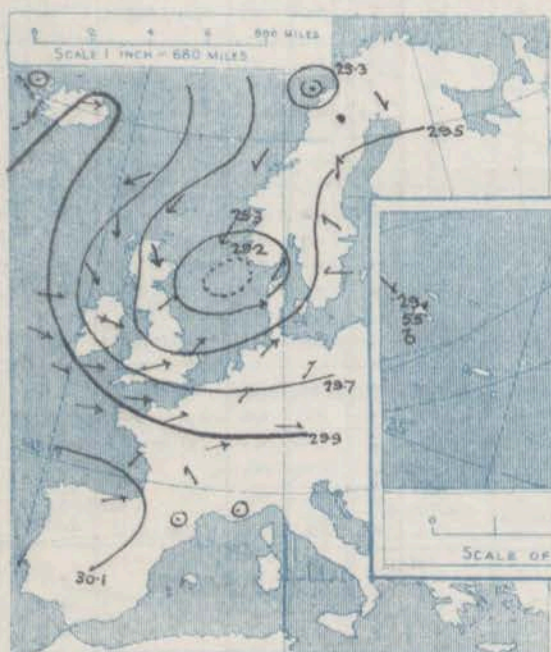


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A.M. YESTERDAY.

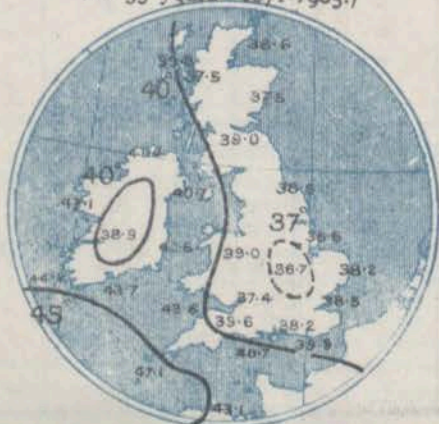


6 P.M. YESTERDAY.



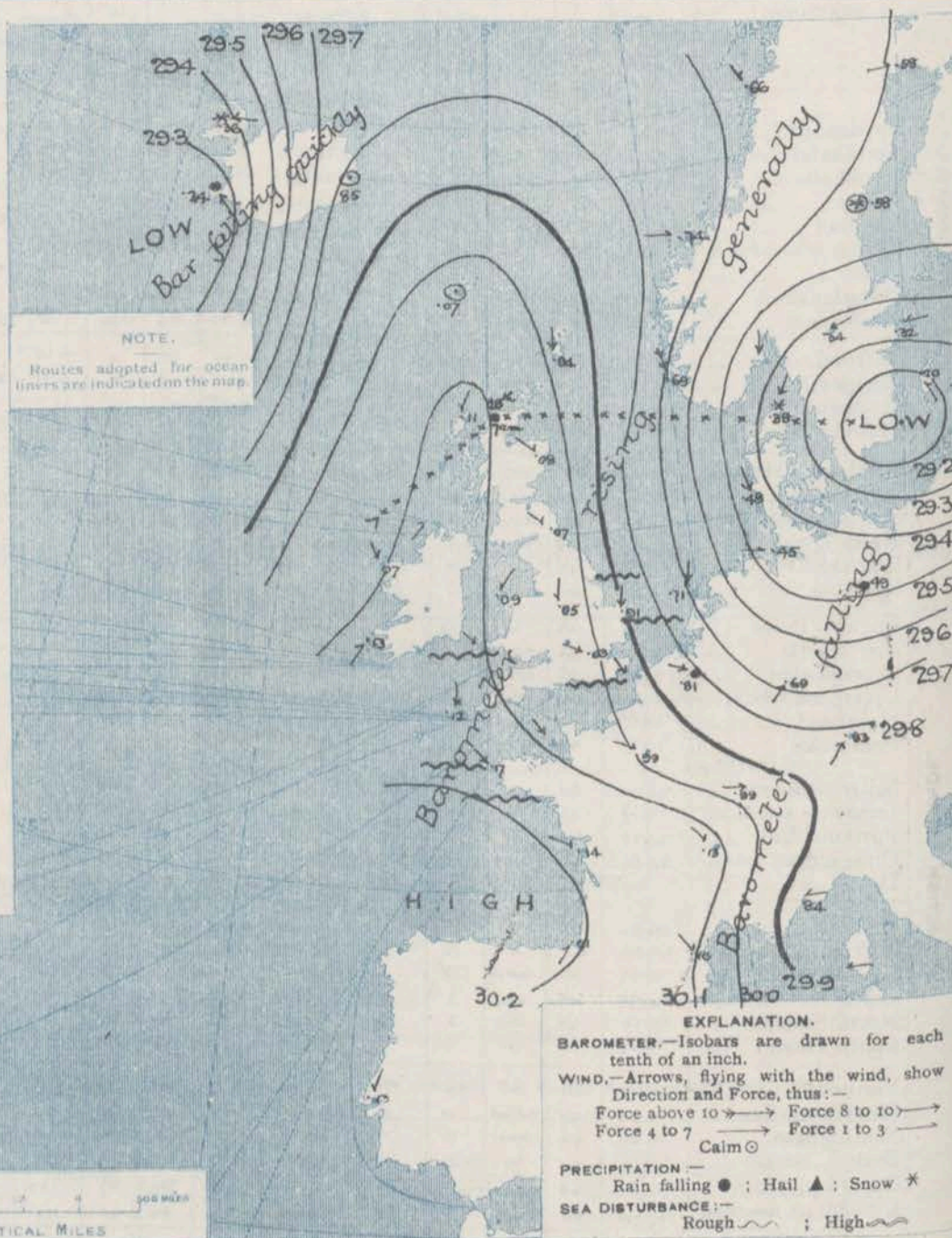
AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
DECEMBER - JANUARY.

(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Wednesday, WEATHER 29<sup>th</sup> Dec<sup>r</sup>

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

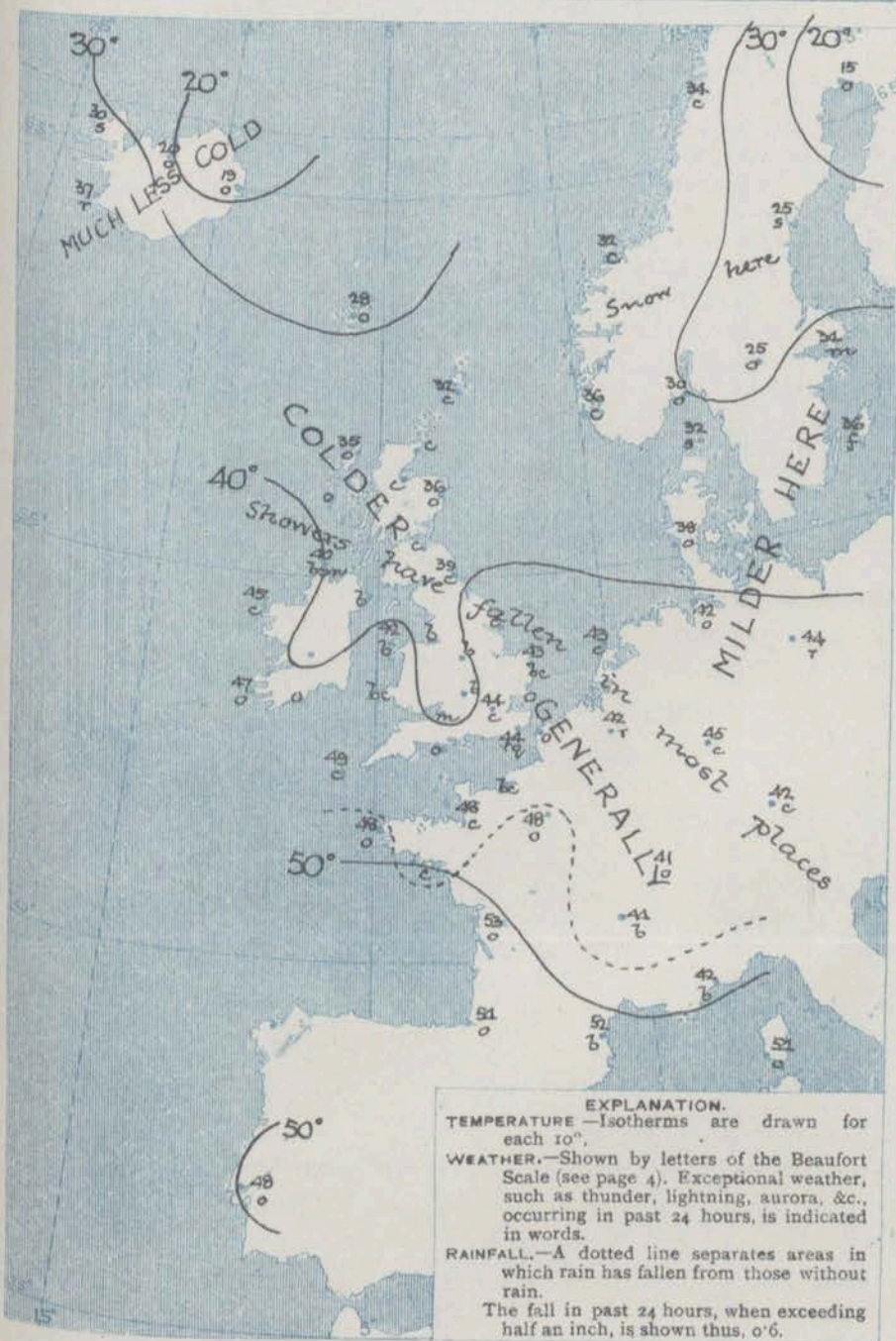
The depression which lay over the north of Scotland yesterday morning has travelled away to the Baltic, and been succeeded by a very rapid increase of pressure, the change within the twenty-four hours amounting to more than an inch over the greater part of Scotland. A ridge of high pressure now extends from the Peninsula and the Bay of Biscay to the north of these islands, but a very quick fall of the barometer is in progress in Iceland, the barometer in the west of that island being below 29.3 ins.

Over the greater part of the United Kingdom and the North Sea region the wind is N.E., and on the coasts of Norway, Denmark and Holland it blows very strongly, reaching a gale at Skudesnaes. Over these islands there is little force. Over Germany and the east of France a strong breeze from W. or S.W. prevails. In the West of Ireland a S.E. wind, strong to a gale, is reported. Temperature has fallen very generally over these islands and their neighbourhood, but it is still above the normal over the greater part of England and Ireland. The readings range from 44° on the south west coast of England to 34° at Liverpool and North Shields, 33° at Wick, and to 32° at Linnburgh Head. Fair weather is reported at most of our own stations and in several parts of France, but rain is falling at Dungeness, and rain or snow at some stations to the eastward and the southward of the North Sea, and also in Iceland.



# CHARTS 29<sup>th</sup> December, 1909.

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY



### NOTES ON YESTERDAY'S WEATHER

During yesterday temperature rose to 51° in London, and to above 50° at many other stations in this country. Rain has fallen in most places, but in small quantities. Many localities recorded 1 or 2 hours of bright sunshine, and at Jersey 4.5 hours were recorded. According to wireless reports steamers experienced fresh to strong W. by and N.W. breezes and fair to fine weather as far west as the 23rd meridian.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

The weather over the United Kingdom will be dominated by the high pressure ridge during to-day, but by to-morrow it is likely to be affected by the fresh cyclonic system which is at present extending over Iceland.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- |    |   |  |
|----|---|--|
| 0  | a | Northernly to South-Westerly or Southerly winds, light to fresh or strong; fair to day and cool, some rain tomorrow and milder.  |
|    | b |  |
| 1  |   |  |
| 2  | a | Northernly winds, moderate or light, with fair weather, then Westerly or South-Westerly winds, with milder and less fair weather, slight frost in most places tonight. |
|    | b |  |
| 3  |   |  |
| 4  | a | Same as Nos. 0 and 1.  |
|    | b |  |
| 5  |   |  |
| 6  | a | Wind backing to West or South-West by tonight or tomorrow, and increasing somewhat in force; fair and cool, then unsettled and milder.                                 |
|    | b |  |
| 7  | a |  |
|    | b |  |
| 8  | a |  |
|    | b |  |
| 9  | a |  |
|    | b |  |
| 10 | a |  |
|    | b |  |

### 11 WESTERN CHANNEL AND BAY.

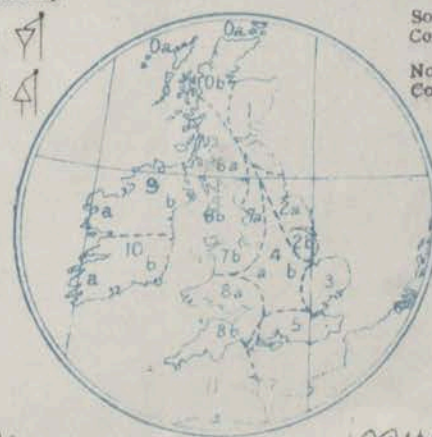
Northerly and North-Westerly to South-Westerly winds, light or moderate; generally fair or fine; sea moderate.

### FORECAST DISTRICTS.

Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—  
 Signals hoisted yesterday.      Signals hoisted this morning.

South Cone.   
 North Cone.

South Cone.   
 North Cone.



None

Issued



## DAILY WEATHER REPORT.

Wednesday, 29th December 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	52	40	o	0.0	0.67	Werthing, to 6 p.m. ...	48	46	w, r, o.c.	0.7	0.05
Dublin (City), to 4 p.m.	51	48	py. c. c.		0.02	Brighton, to 6 p.m. ...	49	47	"	0.6	0.03
Rossall Beach, to 6 p.m.						Seaford, to 6 p.m. ...	50	47	o. bc	0.0	0.05
Blackpool, to 9 p.m. ...	52	44	o. c. v	1.2	0.33	Eastbourne, to 6 p.m. ...	51	48	"	0.0	0.07
Southport, to 9 p.m. ...	55	45	or. bc. o	2.0	0.12	Bexhill-on-Sea, to 9 p.m.	50	46	bc	0.0	0.04
Rhyl, to 6 p.m. ...	51	44	b. bc. d.	0.2	0.18	Hastings ...	51	46	r. o. bc	0.0	0.06
Colwyn Bay, to 6 p.m. ...	55	45	or. o	1.1	0.15	Folkestone, to 6 p.m. ...	51	46	"	0.0	0.05
Llandudno, to 9 p.m. ...	53	47	c. o	0.0	0.23	Ramsgate, to 6 p.m. ...	53	39	"	0.0	0.04
Bettws-y-Coed, to 6 p.m.	55	46	r. o	0.0	0.05	Margate, to 6 p.m. ...	53	42	"	0.3	0.13
Towyn, to 6 p.m. ...	48	45	bc. o	1.8	0.02	Felixstowe, to 6 p.m. ...	53	42	or. of. c	1.6	0.09
Aberystwyth, to 6 p.m. ...	53	43	cp. c	2.6	0.04	Lowestoft, to 6 p.m. ...	52	47	r. bc	2.4	0.14
Plymouth, to 9 p.m. ...	53	50	"	2.0	0.05	Skegness, to 6 p.m. ...	53	42	o. c	0.0	0.15
Paignton, to 6 p.m. ...	53	50	"	1.8	0.05	Scarborough, to 9 p.m. ...	52	42	r. bc. cp. o	2.4	0.27
Torquay, to 6 p.m. ...	52	49	o. c. bc. b	2.0	0.05	Harrogate, to 6 p.m. ...	50	43	om. or. c. or	0.6	0.10
Weymouth, to 6 p.m. ...	52	49	"	1.1	0.05	Buxton, to 6 p.m. ...	51	41	om. o	0.0	0.09
Bournemouth, to 6 p.m. ...	52	48	"	1.0	0.05	Darwen, to 9 p.m. ...	54	45	o. c. or. o	0.0	0.36
Southsea, to 6 p.m. ...	50	46	"			Manchester, to 9 p.m. ...	52	45	o. c. r. o	0.7	0.11
Bognor, to 6 p.m. ...						Birmingham, to 9 p.m. ...					

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hour ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		Weather.	RAIN. Ins.	STATIONS.	TEMPERATURE F.		Weather.	RAIN. Ins.
	Max.	Min.				Max.	Min.		
Madeira ...	not received		o. o	0.08	Utrecht ...	52	45	o. o	0.08
Marseilles ...	54	45	"	"	Groningen ...	48	36	bc. o	0.16
Malta ...	61	54	"	"	Zurich ...	"	"	o. o	0.08
Algiers ...	66	52	bc. b	"	Geneva ...	"	"	o. bc	0.29
Tunis ...	66	41	o. b	"	Lugano ...	"	"	b. b	"
Palermo ...	66	45	b. c	"	Berne ...	43	"	"	Measured 7.30 a.m. 0.04
Naples ...	57	48	b. b	"	Coire ...	43	"	"	"
Brindisi ...	59	44	b. b	"	Castasegna ...	39	"	"	"
Rome ...	58	41	b. b	"	Davos ...	36	"	"	"
Vienna ...	64	43	o. bc	0.04					
St. Petersburg ...	28	3	o. s	0.04					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Air.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
			Ins.											Ins.			
Canada { Dec. 28th 4am	51 N	24 W	29.41	SW	6-7	-					Dec. 28th 3pm	48 N	35 W	29.24	WSW	6-7	-
" " 7am	51 N	25 W	29.39	SW	6-7	-					" " 6pm	48 N	34 W	29.25	WSW	8-9	-
" " 3pm	50 N	27 W	29.34	S	4-5	-					" " 2pm	49 N	29 W	29.42	NW	6-7	-
" " 6pm	50 N	28 W	29.31	S	6-7	bc					" " 7am	49 N	27 W	29.46	NW	4-5	-
Minneapolis { Dec. 27th 4am	49 N	26 W	29.37	SSW	6-7	-					" " 3pm	49 N	23 W	29.45	NW	10-11	-
" " 7am	49 N	29 W	29.30	NW	6-7	e					" " 6pm	49 N	21 W	29.70	WNW	6-7	-
Greenland { Dec. 27th 3pm	50 N	12 W	29.57	SSW	6-7	-					" " 28th 4am	49 N	16 W	29.40	NW	6-7	-
" " 6pm	50 N	13 W	29.40	SSW	6-7	-					" " 7am	49 N	15 W	29.42	NW	4-5	-
" " 10am	50 N	16 W	29.43	W	6-7	-					" " 10am	49 N	13 W	30.01	NW	6-7	-
" " 3pm	50 N	17 W	30.03	W	6-7	-					" " 1pm	49 N	11 W	30.01	NW	6-7	-
" " 6pm	50 N	20 W	30.13	WSW	4-5	-					" " 3pm	49 N	10 W	29.99	WNW	6-7	-
" " 7am	50 N	21 W	30.03	S	4-5	b					" " 6pm	49 N	9 W	30.00	WNW	6-7	-
Montcalm { Dec. 27th 3pm	51 N	17 W	29.29	W	4-5	-											
" " 6pm	51 N	18 W	29.63	W	6-7	bc											
" " 10am	50 N	20 W	29.71	WNW	6-7	-											
" " 7am	51 N	24 W	29.73	WNW	6-7	bc											

## NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1:—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.51 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 8 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

‡ Received too late for insertion in Charts.

TERMS OF SUBSCRIPTION for the Daily Weather Report and for transmission of Forecasts by telegraph may be obtained on application.

METHEOLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)



# DAILY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

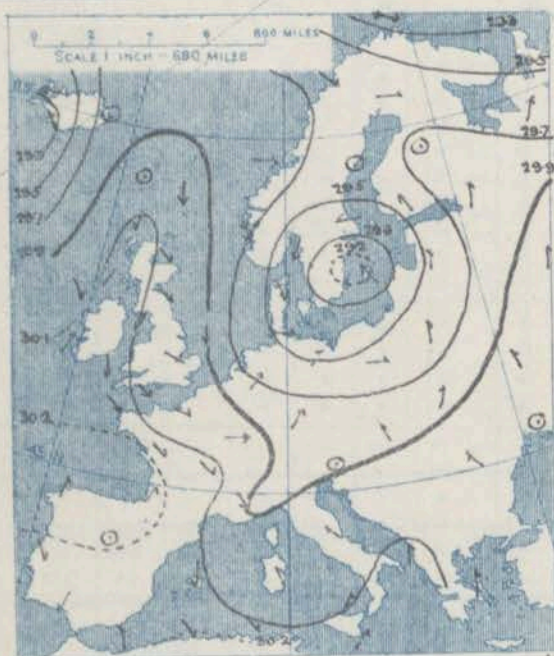
Thursday  
30th December, 1909.

STATIONS.		YESTERDAY EVENING					THIS MORNING.										PAST 24 HOURS.				
		Barom.	Temp.	Wind.	Force	Weather.	Barometer.		Temperature.			Wind.	Force	Weather.	Sea	Temp.		Weather.	Sun.	Rainfall.	
							At 82° Fahr. and M.S.L. Lat. 45°	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.					Max.	Min.				
		At 39° Fahr. and M.S.L. Lat. 45°	Dry Bulb.	Dir.	(0 to 12).		Ins.	Ins.	°	°	°	Dir.	(0 to 12).		(0 to 9).	°	°		Hours.	Ins.	
SCANDINAVIA.	Haparanda...	29.90	-1	NW	2	b	30.11	+0.53	-8	-8	-23	Z	0	b	2	25	-3				
	Hernösand...	29.99	21	S	2	0	30.23	+0.68	14	14	-11	NE	2	b	2	28	7.14			0.04	
	Stockholm...	29.76	31	NNE	8	bc	30.18	+0.86	23	21	-11	NNW	4	bc	2	34	7.23			0.04	
	Wisby...	29.56	33	NNE	9	T	30.04	+0.84	35	31	-1	NNE	8	0	2	39	30			0.47	
	Karlstad...	30.07	23	NE	6	b	30.34	+1.00	18	16	-7	NW	2	b	2	3	3			0.12	
	Fæder (X'ania Fjord)...	30.00	34	N	7	b	30.33	+0.91	28	27	-2	NNW	2	C	1	34	28				
	Bodö...	30.00	32	NNW	4	b	30.08	+0.42	30	28	-4	ESE	4	S	2	34	23				
ICELAND & FAEROE.	Christiansund...	30.06	32	Z	0	b	30.12	+0.38	31	30	-1	SE	1	C	3	34	26				
	Skudesnaes...	30.12	33	Z	0	b	30.29	+0.60	38	32	+2	SSE	2	0	4	38	33				
BRITISH ISLANDS.	Isafjord...	28.76	46	S	9	0	28.91	-0.45	43	*	+13	S	7	C	2	*	*				
	Reykjavik...	28.91	43	SE	7	T	28.95	-0.29	38	*	+1	S	3	T	2	*	*				
	Seydisfjord...	29.29	38	SE	4	T	29.16	-0.69	39	*	+20	Z	0	b	2	*	*				
	Thorshavn...	29.93	36	ENE	6	0	29.55	-0.52	46	*	+18	WSW	6	C	2	*	*				
	Sumburgh Head...	30.11	32	N	1	bc	29.95	+0.01	42	41	+10	S	5	T	4	42	20	C. bc		0.04	
	Stornoway...	30.06	42	S	5	0	29.70	-0.21	48	47	+13	SSW	5	Og	5	48	34	C. m. edp	0.1	0.07	
	Castlebay (Barra Id.)...	30.08	46	S	4	C	29.92	-0.12	49	48	+11	SSW	4	0	5	50	38	C. v. m. g	0.0	0.04	
	Malin Head...	30.13	41	S	2	cm	30.07	0.00	45	45	+5	S	3	cm	1	46	33	vgm. b. m			
	Blackod Pt....	30.10	47	SSW	4	0	30.03	-0.04	50	49	+5	SSW	6	Og	4	50	44	bc. op. b. m		0.03	
	Valencia...	30.22	46	S	2	cm	30.25	+0.12	49	48	+2	S	4	0	4	50	45	C. m. b	2.1	0.03	
	Roche's Point...	30.26	46	W	1	b	30.32	+0.17	48	47	+2	W	1	0	3	48	44	nd. c. bc. b		0.01	
	Birr Castle...	30.20	44	SSE	3	0	30.23	+0.09	44	43	+5	S	1	bc	2	47	38	O. of	0.3	0.01	
	Donaghadee...	30.21	41	Z	0	bc	30.20	+0.10	43	43	+5	S	2	b	1	44	34	bc			
	Liverpool Obsy...	30.28	39	SE	3	C	30.32	+0.22	41	39	+2	SSE	2	0	2	42	36	bm. bc	5.1		
	Holyhead...	30.24	44	SW	2	cm	30.29	+0.20	47	46	+5	WSW	2	0	1	47	40	C. cm			
	Pembroke (St. Ann's Hd.)...	30.26	46	SSW	2	C	30.33	+0.24	47	45	+4	SW	3	0	3	50	41	bc. lg	4.6	0.02	
	Scilly (St. Mary's)...	30.29	47	WSW	3	C	30.38	+0.26	47	44	-2	W	1	C	3	52	45	C	0.0	0.03	
	Jersey (St. Aubins)...	30.30	46	NNW	3	C	30.42	+0.33	39	38	-9	NW	2	0	2	50	34	vgm. b. m	0.0		
	Portland Bill...	30.29	46	ESE	1	b	30.37	+0.33	45	44	-4	NNE	1	0	3	50	43	bc. b	7.0		
	Dungeness...	30.26	40	NNW	2	bc	30.38	+0.41	33	32	-11	NW	1	bc	2	46	30	C. bc	3.8		
	Dover...	*	*	*	*	*	30.41	+0.39	33	33	-9	NW	1	b	1	45	32	b. bc. b. m	4.9		
	Wick...	30.15	40	SW	3	C	29.98	-0.11	43	40	+3	SW	3	C	2	43	33				
	Nairn...	30.15	29	Z	0	b	29.02	-0.05	44	42	+8	W	1	C	1	44	27	C. bc	0.3		
	Aberdeen...	30.21	34	SSW	1	b	30.13	+0.05	39	38	+3	SSW	3	b	2	39	33	C. bc. b. m	1.0		
	Leith...	30.18	35	WSW	1	0	30.15	+0.07	45	42	+7	WSW	4	C	2	45	34	C. of			
North Shields...	30.27	39	WNW	2	cm	30.27	+0.20	35	35	-4	SSW	2	C	2	40	33	C. cm	1.1			
Spurn Head...	30.27	39	NW	4	C	30.34	+0.29	35	34	-7	SW	3	C	5	42	34	C. bc				
Yarmouth...	30.24	41	NW	4	bc	30.37	+0.46	34	33	-9	NW	2	bc	4	44	33	bc	4.0			
Clacton-on-Sea...	30.28	37	NW	3	b	30.39	+0.44	33	33	-9	WSW	1	bc	0	45	31	vg. bc. b. m	4.5			
Nottingham...	30.30	38	ENE	1	b	30.36	+0.31	34	33	-6	SW	1	0	2	43	29	bm. b. b. m	0.1			
Bath...	30.30	35	W	1	m	30.40	+0.29	36	36	-2	Z	0	0	2	46	30		6.2			
Oxford...	30.26	33	Z	0	b	30.44	+0.33	35	34	-4	NNW	2	0	2	46	28	b. b. m. of				
London (St. James's Park)...	30.29	42	N	1	b	30.41	+0.35	33	33	-11	Z	0	of	2	45	32	C. O. b	0.1			
GERMANY, &c.	The Scaw (Skagen)...	30.00	35	NNE	7	b	30.20	+0.22	31	30	-1	NE	3	b	1	37	30			0.04	
	Fano...	29.93	32	N	4	b	30.32	+0.34	29	27	-9	N	1	bc	2	39	27				
	Cuxhaven...	29.91	39	N	7	b	30.28	+0.33	34	32	-8	NNE	4	0	2	41	32				
	The Helder...	30.19	41	N	5	0	30.38	+0.67	40	38	-2	NNW	1	C	1	43	39				
	Brussels...	*	*	*	*	*	30.41	+0.50	37	36	-5	Z	0	0	2	44	35			0.04	
	Berlin...	29.65	35	W	6	S	30.10	+0.61	35	30	-9	WNW	5	C	2	45	34			0.24	
	Frankfurt...	30.10	40	NNW	5	T	30.31	+0.62	36	34	-9	NW	3	C	2	42	36			0.08	
Munich...	29.98	38	W	6	T	30.28	+0.45	30	100	-12	NW	5	S	2	43	28			0.20		
FRANCE.	C. Gris Nez...	30.29	42	NNW	5	bc	30.40	+0.47	38	37	-6	Z	0	0	1	52	37				
	La Hève...	30.30	43	NNW	1	C	30.45	+0.43	38	37	-8	W	1	b	1	55	36				
	Brest...	30.31	49	NW	2	0	30.43	+0.26	47	46	-1	WNW	2	0	3	50	45				
	Lorient...	?	48	NW	3	0	?	?	45	44	-2	ENE	1	0	2	48	45				
	Rocheport...	30.26	49	NW	2	0	30.38	+0.24	46	45	-7	NE	3	0	2	52	43				
	Biarritz...	30.30	50	S	2	0	30.37	+0.16	47	46	-7	E	3	0	2	54	46			0.04	
	Paris...	30.27	43	NNW	2	0	30.43	+0.44	35	35	-13	NE	1	0	2	48	32				
SPANISH PENIN.	Belfort...	30.15	40	WSW	6	0	30.39	+0.40	33	32	-3	NW	2	0	2	41	33			0.12	
	Lyons...	30.28	44	N	2	0	30.40	+0.27	35	32	-9	NNW	3	0	2	48	34				
	Nice...	29.88	48	Z	0	b	29.86	+0.02	48	40	+6	Z	0	6	2	55	42				
	Perpignan...	30.14	52	NW	5	b	30.13	+0.03	48	45	-4	NW	3	0	2	52	46				
	Sanguinaire...	29.95	53	NW	5	0	29.91	-0.15	50	47	-4	E	2	0	6	59	45				
	Corunna...																				
	Lisbon...																				
Azores (P. Delgada)...																					
" Horta...	30.34	56	Z	0	b	30.42	+0.13	53	51	-2	Z	0	b	2	66	52					

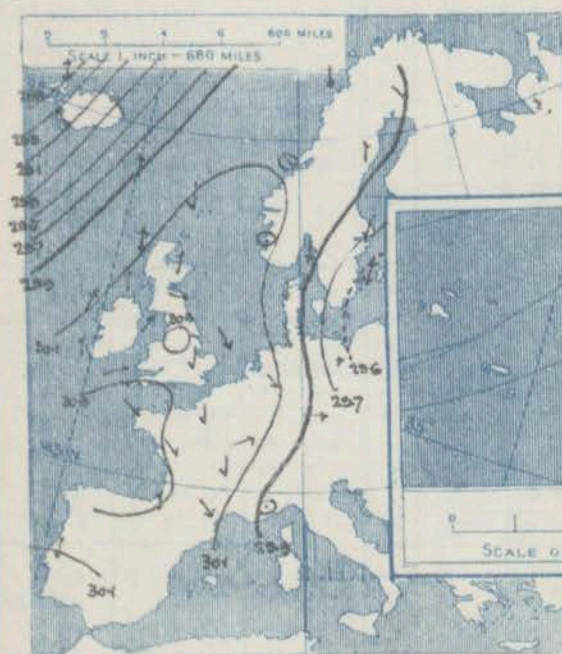


SUPPLEMENTARY CHARTS  
OF  
BAROMETER AND WIND  
FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A.M. YESTERDAY.

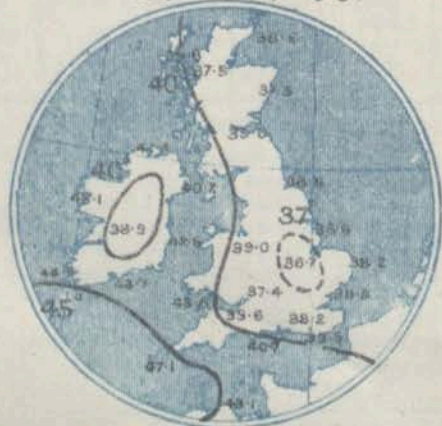


6 P.M. YESTERDAY.



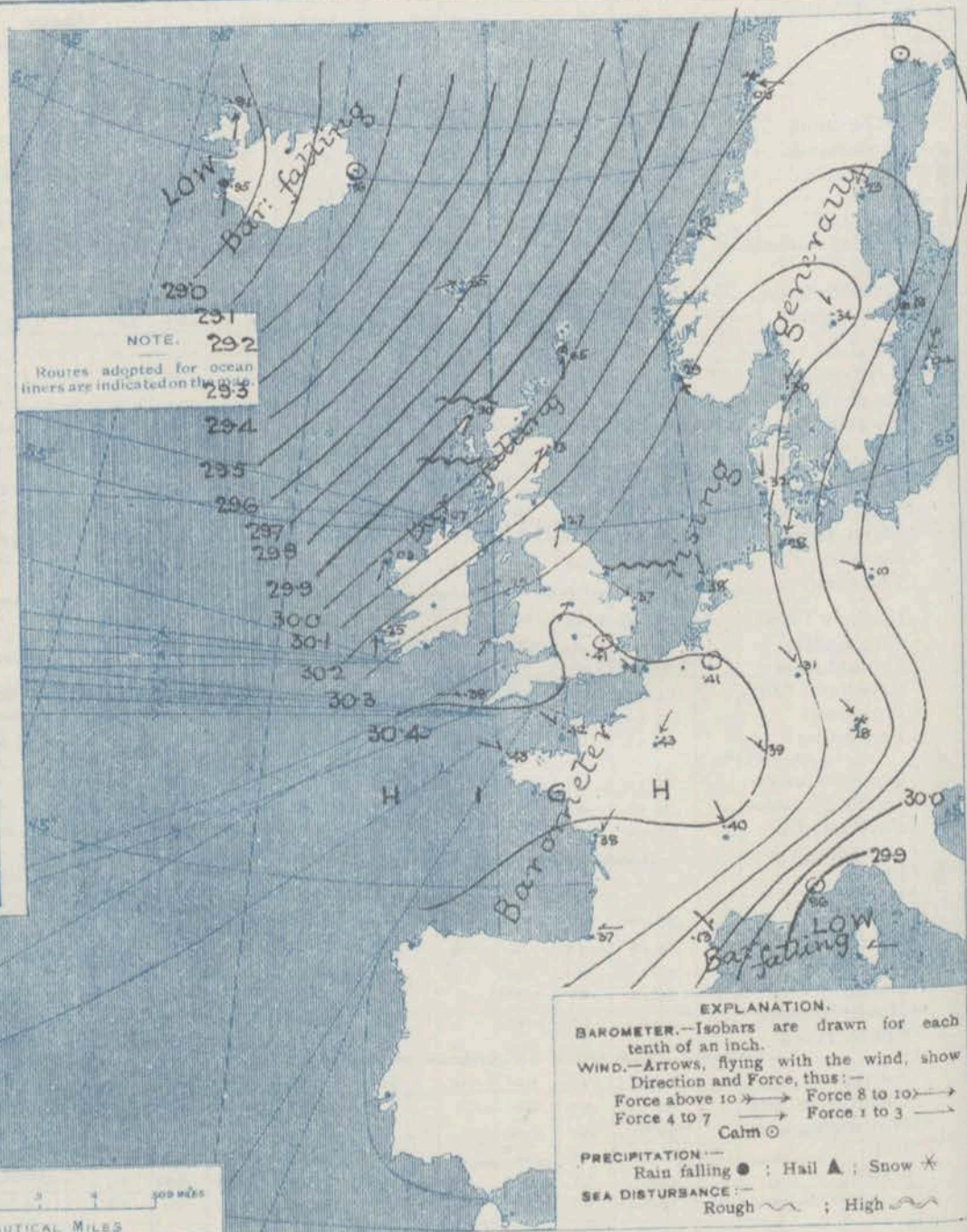
AVERAGES OF TEMPERATURE AT 8 A.M.  
FOR THE TWO-MONTHLY PERIOD  
DECEMBER - JANUARY.

(Derived chiefly from Observations extending over  
the 35 years—1871-1905.)



Thursday, WEATHER 30<sup>th</sup> Dec<sup>r</sup>

1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



NOTES ON THE GENERAL SITUATION AT 7 A.M.

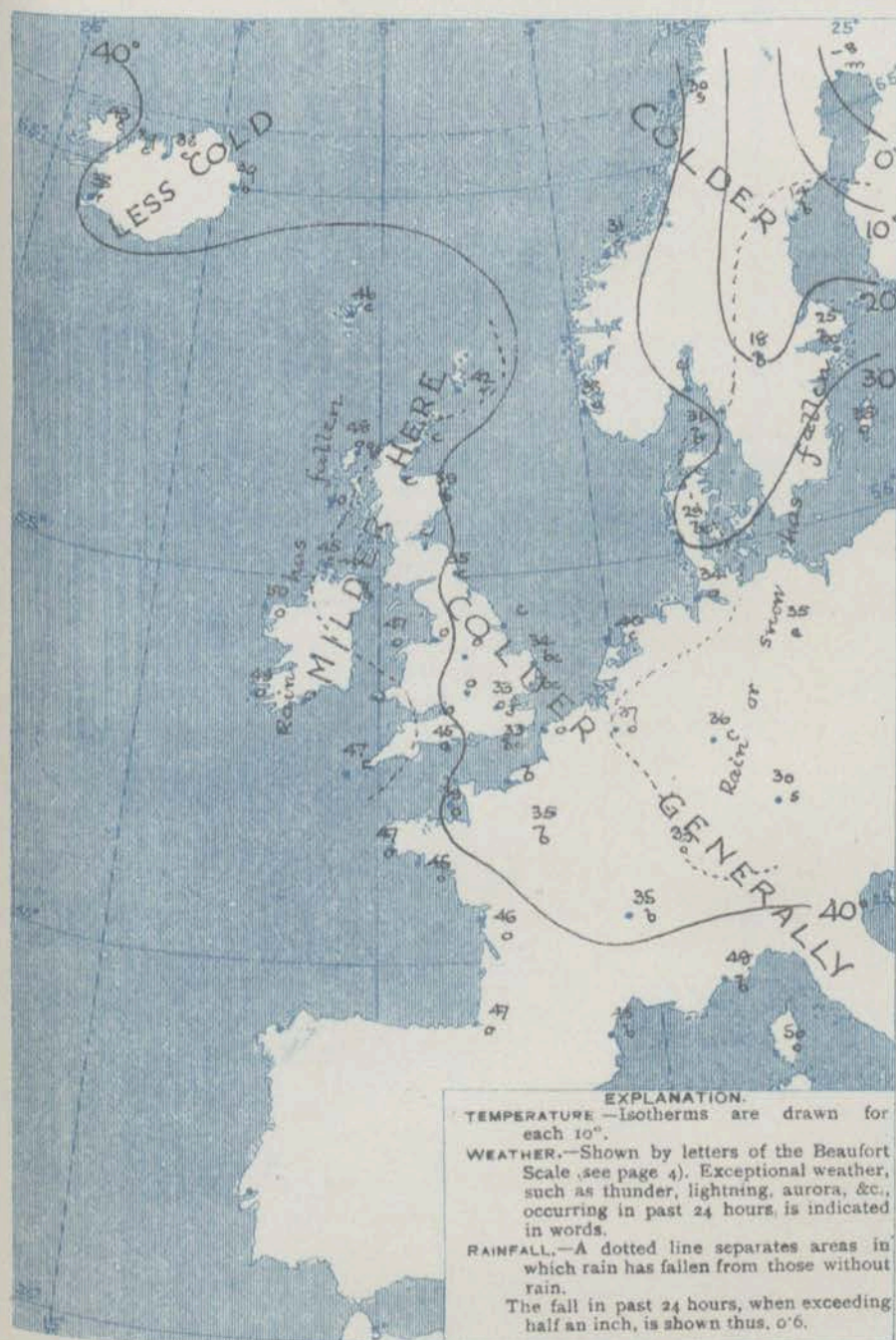
A large anticyclone now extends from the Atlantic over the southern half of the United Kingdom and all the more western parts of the Continent, where a general rise of the barometer is in progress. The depression noticed yesterday to the westward of Iceland is extending south eastwards, and is occasioning a fall of the barometer on our own northern coasts.

The wind is light to moderate from the southward or south-westward over the greater part of the United Kingdom, and is south-easterly in the west of Norway. Light north-westerly breezes prevail in the south-east of England, the Netherlands and Western Germany, and north-easterly breezes at most of the Danish stations. Temperature has risen in Iceland, Wales and Scotland, and along our entire western coasts at now ranges between 48° and 50°. Over England and the Continent a general fall has taken place, and at our own central and south-eastern stations it is very little above the freezing point. Hard frost prevails in Sweden; in Iceland the thermometer ranges a little on either side of 40°. The weather, although fine in a few scattered places, is cloudy or dull over Western Europe generally. Rain is falling in the Shetlands, and also in Western Iceland, and snow at Bodø and Muriek. The sea is moderate or slight generally, but rather rough at the mouth of the Humber, so well as in the neighbourhood of the Hebrides.



# CHARTS 30<sup>th</sup> December, 1909

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



### NOTES ON YESTERDAY'S WEATHER.

At several of our southern stations the thermometers yesterday rose to 50° or slightly above it, but in the north of Scotland it did not reach 40°. Frost occurred over Great Britain at night; in London the thermometers on the grass fell to 27° and at Oxford to 22°. The amount of bright sunshine was in many places large, the highest record being 7 hours at Weymouth. Slight rain has fallen at several of our western and extreme northern stations. Solar and lunar halos were seen yesterday in the south of England.

### GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

Over the greater part of England the weather will remain, for the present, under the influence of the large anticyclone, and will, therefore, be generally fair and dry, but with mist or fog in places. The Icelandic depression will probably continue to extend slowly in a south-easterly direction, and will occasion freshening S.W. winds and rain over a considerable portion of Ireland and Scotland.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- |    |   |   |
|----|---|---|
| 0  | a | Southerly and South-Westerly winds, strong;                           |
|    | b | mild, unsettled, some rain.   |
| 1  | a | South-Westerly winds, light or moderate;                              |
|    | b | fair at first, some rain later. Becoming milder.                      |
| 2  | a | South-Westerly winds light; fair                                      |
|    | b | generally; milder.  |
| 3  | a | Variable breezes, finally South-                                      |
|    | b | Westerly; fair generally, but misty or foggy in places. Rather milder |
| 4  | a | Southerly and South-Westerly winds,                                   |
|    | b | freshening; mild, unsettled, some rain.                               |
| 5  | a | Same as No. 2.  |
|    | b |   |
| 6  | a | Westerly and South-Westerly winds,                                    |
|    | b | light; fair generally, but misty or foggy in places. Mild.            |
| 7  | a | Southerly and South-Westerly winds                                    |
|    | b | freshening; fair at first, some rain later. Mild.                     |
| 8  | a |   |
|    | b |   |
| 9  | a |   |
|    | b |   |
| 10 | a |   |
|    | b |   |

### 11 WESTERN CHANNEL AND BAY

Light to moderate South-Westerly winds north Channel and upper part Bay, variable breezes further south; sea moderate; cloudy mist or fog locally. Normal temperature.

### FORECAST DISTRICTS.

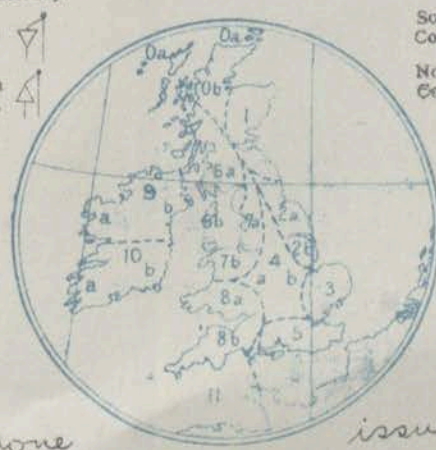
Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

South Coast.  
North Coast.

Signals hoisted this morning.

South Coast.  
North Coast.





# DAILY WEATHER REPORT. Thursday, 30th December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	48	33	3. zc. bc. b	0.1	-	Werthing, to 6 p.m. ...	46	38	c. m	4.7	-
Dublin (City), to 4 p.m.	41	35	bm. 3. f. bc. m	-	-	Brighton, to 6 p.m. ...	46	43	"	4.2	-
Rossall Beach, to 6 p.m.	52	32	c. b. c	-	-	Seaford, to 6 p.m. ...	47	38	b. bc. b	4.1	0.05
Blackpool, to 9 p.m. ...	47	33	c. om	6.0	-	Eastbourne, to 6 p.m. ...	51	41	"	4.7	-
Southport, to 9 p.m. ...	45	34	bc. om. c	4.2	-	Bexhill-on-Sea, to 9 p.m.	48	43	bc. m	5.0	-
Rhyl, to 6 p.m. ...	51	34	bc. r. bc. b	8.1	-	Hastings ...	"	"	"	5.4	-
Colwyn Bay, to 6 p.m. ...	45	38	bc. b	5.5	-	Foikestone, to 6 p.m. ...	48	38	b	4.6	0.01
Llandudno, to 9 p.m. ...	48	36	o. bc	4.2	-	Ramsgate, to 6 p.m. ...	"	"	"	4.8	0.06
Bettws-y-Coed, to 6 p.m.	47	32	b	3.5	-	Margate, to 6 p.m. ...	44	39	b. o	4.0	0.05
Towyn, to 6 p.m. ...	48	34	b. bc	4.5	-	Felixstowe, to 6 p.m. ...	53	40	"	4.6	0.01
Aberystwyth, to 6 p.m. ...	47	36	"	4.0	-	Lowestoft, to 6 p.m. ...	49	40	c. bc. p. c	4.0	0.0
Plymouth, to 9 p.m. ...	49	45	bc. b	4.6	-	Skegness, to 6 p.m. ...	44	36	q. bc. b	3.0	0.05
Paignton, to 6 p.m. ...	49	43	bc. o	4.5	-	Scarborough, to 9 p.m. ...	50	38	"	0.8	0.05
Torquay, to 6 p.m. ...	50	43	"	3.2	-	Harrogate, to 6 p.m. ...	46	32	o. bc. b	3.8	-
Weymouth, to 6 p.m. ...	48	39	b. bc	7.0	-	Buxton, to 6 p.m. ...	"	"	"	"	"
Bournemouth, to 6 p.m. ...	46	37	b	6.8	-	Darwen, to 9 p.m. ...	43	33	om. bc. f	1.5	-
Southsea, to 6 p.m. ...	46	40	"	5.9	-	Manchester, to 9 p.m. ...	37	34	o. cf. c. o	0.0	-
Bognor, to 6 p.m. ...	48	41	b. bc	6.0	-	Birmingham, to 9 p.m. ...	47	35	c	1.0	-

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	66	50	bc. bc	Ins. 6.79	Utrecht ...	52	45	o. o	0.12
Marseilles ...	57	43	c. o	-	Groningen ...	50	43	o. o	0.12
Malta ...	64	53	bc	-	Zurich ...	"	"	bc. c	0.28
Algiers ...	64	53	b. b	-	Geneva ...	"	"	o. o	0.12
Tunis ...	64	41	bc. bc	0.35	Lugano ...	"	"	o. o	0.04
Palermo ...	64	50	o. o	-	Berne ...	46	"	o	Measured 7.50 a.m. 0.24
Naples ...	not received	"	"	"	Coire ...	48	"	o	-
Brindisi ...	66	41	b. o	-	Castasegna ...	39	"	o	-
Rome ...	56	48	o. o	-	Davos ...	39	"	bc	0.12
Vienna ...	46	45	f. r	0.43					
St. Petersburg ...	41	23	o. o	-					

## WIRELESS TELEGRAMS.—Received during the 24 hours ended at 9.30 a.m. to-day.

Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
	o	o	Ins.				o	o	o			o	o	Ins.			

### NOTES REFERRING TO INFORMATION GIVEN ON PAGE 1.—

- (a) The morning observations are at 7 a.m., Western European time, (French Stations 6.51 a.m.), with the following exceptions, Birr Castle and Oxford 8 a.m., Lisbon 8 a.m. local time, Azores 8 a.m. local time.
- (b) The information relating to weather is indicated by the following letters—b. blue sky; bc. sky half clouded; c. sky three parts clouded; d. drizzling rain; e. wet air, without rain falling; f. fog; g. gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew; x. hoar frost; z. dust-haze, or smoke.

\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

‡ Received too late for insertion in Charts.

TERMS OF SUBSCRIPTION for the Daily Weather Report  
and for transmission of Forecasts by telegraph may be  
obtained on application.

METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)



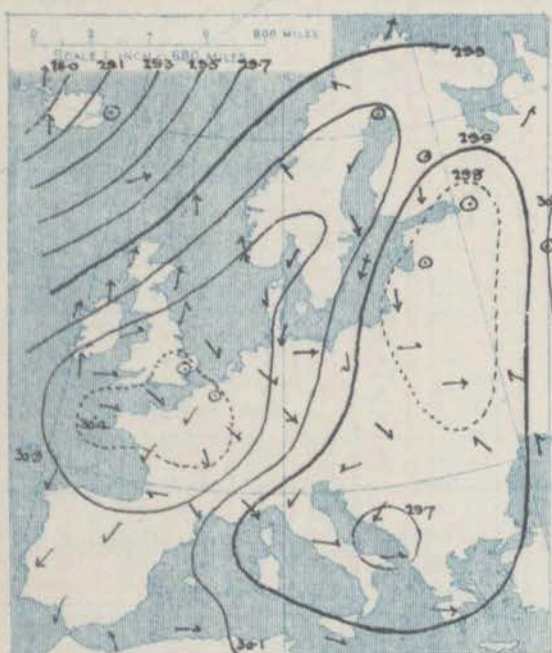
For NOTES see Page 4.



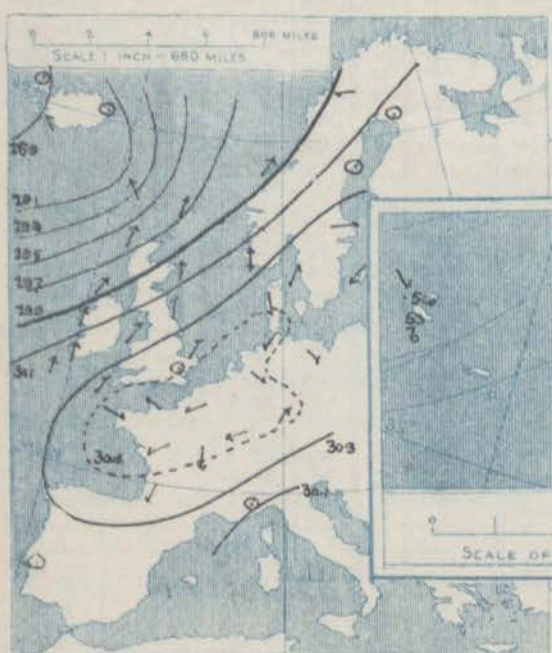
# SUPPLEMENTARY CHARTS OF BAROMETER AND WIND

FOR 7 A.M. AND 6 P.M. YESTERDAY

7 A.M. YESTERDAY.

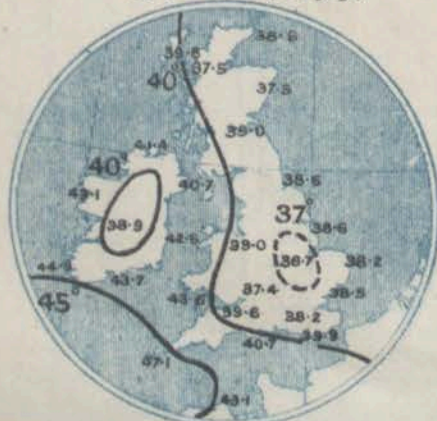


6 P.M. YESTERDAY



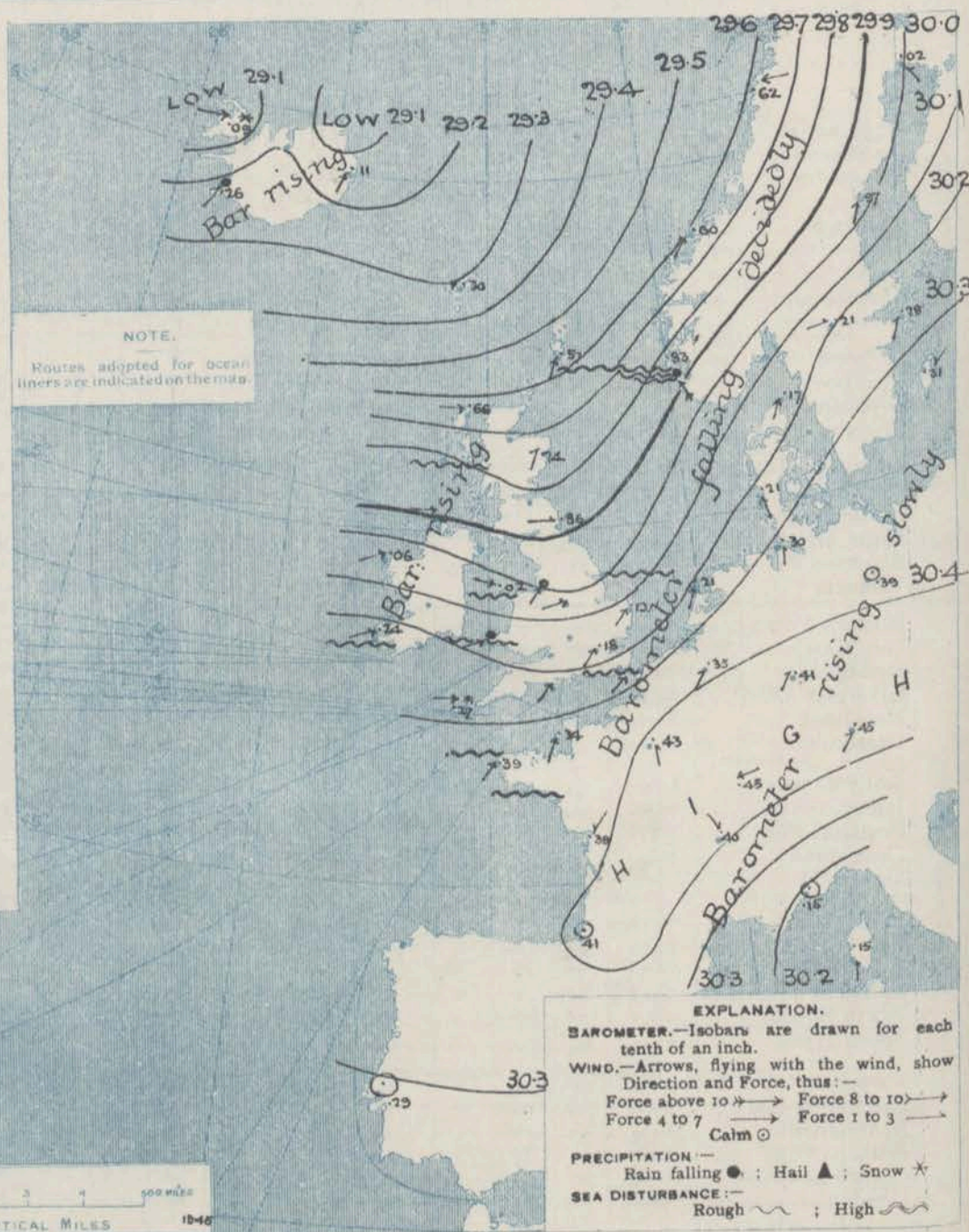
## AVERAGES OF TEMPERATURE AT 8 A.M. FOR THE TWO-MONTHLY PERIOD DECEMBER - JANUARY.

(Derived chiefly from Observations extending over the 35 years—1871-1905.)



Friday, WEATHER 31<sup>st</sup> Dec.

## 1. BAROMETER, WIND AND SEA AT 7 A.M. TO-DAY.



## NOTES ON THE GENERAL SITUATION AT 7 A.M.

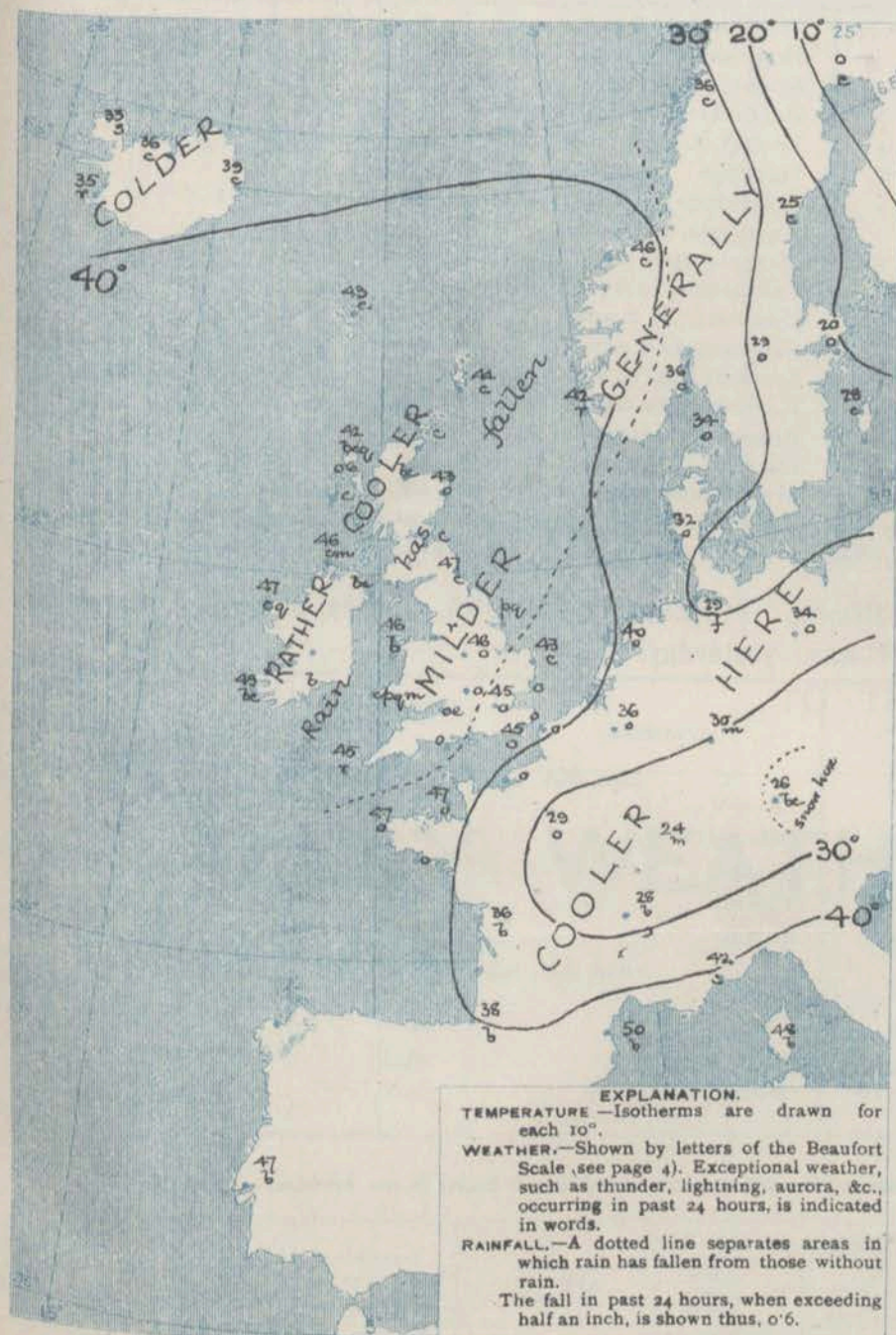
The barometer has fallen very decidedly over the United Kingdom and Norway, while it has risen in Central Europe. The readings range from above 30.4 ins. over a considerable portion of France and Germany to about 29.6 ins. in Shetland, and to below 29.2 ins. in Iceland. The gradient is moderate to rather steep over our Islands and their neighbourhood.

The main current of wind is between West and South-West over the United Kingdom; it has little force in the north, but is fresh or strong over the greater part of Ireland and England. Beyond the North Sea the current is more southerly, and at Skudenes there is a strong gale. Temperature has risen over England and in most parts of Scandinavia, fallen in France and Germany. Over the United Kingdom it ranges from 48° or 49° at some places in the extreme south and south-west to 42° at Clackmannon, and to 41° at Wick and Nairn. The weather is in a changeable condition throughout these Islands and Scandinavia; in several parts of England and in the south-west of Norway rain is falling, but the sky is only partly clouded at many of our western stations. In the south-west of France and at Munich the weather is fair to bright.



# CHARTS 31<sup>st</sup> December, 1909.

## 2. TEMPERATURE AND WEATHER AT 7 A.M. TO DAY.



## NOTES ON YESTERDAY'S WEATHER

The maximum temperature readings during the past twenty-four hours have been above 45° in most parts of the Kingdom, and about 50° at many stations in the north and west of these islands. Rain has fallen at nearly all places in Ireland, Scotland, and the west and north of England, but the measurements are not as a rule large, the highest figure being 0.55 inch at Stonoway. Several hours of bright sunshine were recorded on the coasts of Kent and Sussex, and also at Forsey and in some parts of North Wales. Wireless reports show that steamers experienced yesterday moderate to strong S.W. winds as far west as the 17th meridian.

## GENERAL INFERENCE FROM THE 7 A.M. OBSERVATIONS.

Although the barometer is at present rising along the western seaboard of these islands the wind direction seems to indicate that further low pressure systems exist some distance away on the Atlantic. No great change in the general type of conditions is, therefore, to be expected.

## FORECASTS

For the 24 hours commencing at  
NOON TO-DAY.

For the positions of the DISTRICTS indicated by the numbers 0-11—see map at foot.

- |    |   |   |
|----|---|---|
| 0  | a | Wind between West and South, fresh in places; changeable, some rain; moderate temperature.  |
|    | b |   |
| 1  |   |   |
| 2  | a | South-Westerly and Westerly winds, fresh or strong to moderate; changeable, some showers, fair intervals; mild to moderate temperature. |
|    | b |   |
| 3  |   |   |
| 4  | a | Westerly to South-Westerly or Southerly winds, varying in force; changeable, some showers; mild to moderate temperature.                |
|    | b |   |
| 5  |   |   |
| 6  | a |   |
|    | b |   |
| 7  | a |   |
|    | b |   |
| 8  | a |   |
|    | b |   |
| 9  | a |   |
|    | b |   |
| 10 | a |   |
|    | b |   |

## 11 WESTERN CHANNEL AND BAY.

Wind between South-West and West, fresh or strong to moderate; sea rather rough to moderate; changeable, some showers and mist.

## FORECAST DISTRICTS.

Those portions of the Coasts upon which the Warning Signals are at present flying are indicated thus:—

Signals hoisted yesterday.

Signals hoisted this morning.

South Cone.

South Cone.

North Cone.

North Cone.





# DAILY WEATHER REPORT.

Friday, 31st December, 1909.

## TEMPERATURE, WEATHER, SUNSHINE AND RAINFALL FOR YESTERDAY.

STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.	STATIONS.	TEMPERATURE F.		Weather.	Sunshine. Hrs.	Rainfall. Ins.
	Max.	Min.					Max.	Min.			
Oban, to 6 p.m. ...	49	35	og. r	0.0	0.27	Worthing, to 6 p.m. ...	46	29	c	2.8	-
Dublin (City), to 4 p.m.	52	44	f. o. bc. cg	-	-	Brighton, to 6 p.m. ...	45	30	c	4.0	-
Rossall Beach, to 6 p.m.	44	34	c	-	-	Seaford, to 6 p.m. ...	46	31	b. m	4.1	-
Blackpool, to 9 p.m. ...	44	33	o. c. o	0.0	-	Eastbourne, to 6 p.m. ...	43	30	c	3.6	-
Southport, to 9 p.m. ...	45	35	o. e. c	0.2	-	Bexhill-on-Sea, to 9 p.m.	47	34	f. c	4.0	-
Rhyl, to 6 p.m. ...	49	32	b. o. bc. c. o	1.7	-	Hastings ...	*	*	*	4.6	-
Colwyn Bay, to 6 p.m. ...	49	37	b. bc. b	4.0	-	Folkestone, to 6 p.m. ...	42	30	b. f	5.7	-
Llandudno, to 9 p.m. ...	50	38	c. b. bc	3.2	-	Ramsgate, to 6 p.m. ...	*	*	*	5.6	-
Bettws-y-Coed, to 6 p.m.	45	37	b. bc. c	1.0	-	Margate, to 6 p.m. ...	43	33	b. o	3.4	-
Towyn, to 6 p.m. ...	-	-	-	-	-	Felixstowe, to 6 p.m. ...	45	30	*	1.2	-
Aberystwyth, to 6 p.m. ...	49	44	-	0.3	-	Lowestoft, to 6 p.m. ...	41	31	bc. c	2.0	-
Plymouth, to 9 p.m. ...	48	43	o	0.1	-	Skegness, to 6 p.m. ...	40	35	c	0.8	-
Paignton, to 6 p.m. ...	49	43	g. o	0.0	-	Scarborough, to 9 p.m. ...	42	33	o. c	0.2	-
Torquay, to 6 p.m. ...	48	43	-	0.0	-	Harrogate, to 6 p.m. ...	43	32	b. bc. c	0.8	-
Weymouth, to 6 p.m. ...	47	32	b. o. bc	0.0	-	Buxton, to 6 p.m. ...	42	29	o. c. o	0.8	-
Bournemouth, to 6 p.m.	45	29	f. o	0.0	-	Darwen, to 9 p.m. ...	41	33	bc. o. c. u	0.0	-
Southsea, to 6 p.m. ...	43	31	*	0.0	-	Manchester, to 9 p.m. ...	45	39	o. cg. or. bc. o	0.0	-
Bognor, to 6 p.m. ...	45	30	x. b. bc. o	0.2	0.01	Birmingham, to 9 p.m. ...	43	34	o	0.0	-

## TEMPERATURE, WEATHER, and RAINFALL at additional FOREIGN STATIONS, mainly for the 24 hours ended at 7 a.m. yesterday.

STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.	STATIONS.	TEMPERATURE F.		WEATHER.	RAIN.
	Max.	Min.				Max.	Min.		
Madeira ...	not received	not received	-	Ins.	Utrecht ...	45	37	c. o	-
Marseilles ...	55	41	b. b	-	Groningen ...	43	30	bc. c	-
Malta ...	64	56	c	-	Zurich ...	*	*	o. c	0.08
Algiers ...	64	54	b. o	-	Geneva ...	*	*	b. b	-
Tunis ...	66	45	o. f	-	Lugano ...	*	*	b. b	-
Palermo ...	not received	not received	-	-	Berne ...	41	30	r	Measured 7.50 a.m. 0.43
Naples ...	66	42	bc. b	-	Coire ...	45	*	o	0.20
Brindisi ...	66	42	bc. o	-	Castasegna ...	46	*	b	-
Rome ...	56	45	o. b	0.08	Davos ...	32	*	s	0.16
Vienna ...	46	34	o. s	0.04					
St. Petersburg ...	32	27	s. s	0.16					

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Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Disturbance.	Ship, and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.
	Lat.	Long.		Dir.	Force.		Dry Bulb.	Wet Bulb.	Sea.			Lat.	Long.		Dir.	Force.	
Montebello ...	51 N	22 W	29.79	SW	4-5	-	-	-	-	-	Dec 29th 4am	49 N	30 W	29.48	SW	8-9	-
...	51 N	23 W	29.76	SW	6-7	-	-	-	-	-	...	48 N	30 W	29.54	SW	8-9	-
...	51 N	24 W	29.57	SW	6-7	-	-	-	-	-	...	48 N	25 W	29.63	SW	6-7	-
...	50 N	27 W	29.57	SW	6-7	-	-	-	-	-	...	48 N	23 W	29.78	SW	6-7	-
Kronland ...	50 N	34 W	29.24	SW	6-7	-	-	-	-	-	...	50 N	18 W	29.82	SW	6-7	-
...	50 N	25 W	29.82	WSW	6-7	-	-	-	-	-	...	50 N	17 W	29.95	SW	4-5	-
...	49 N	31 W	29.75	SW	6-7	-	-	-	-	-	...	50 N	13 W	29.11	SW	4-5	-
...	49 N	31 W	29.72	SW	6-7	-	-	-	-	-	...	50 N	11 W	29.11	SW	4-5	-
...	49 N	28 W	29.65	SW	6-7	-	-	-	-	-	...						
...	49 N	27 W	29.63	S	8-9	-	-	-	-	-	...						
...	49 N	23 W	29.60	SW	4-5	-	-	-	-	-	...						
...	49 N	21 W	29.48	SW	4-5	-	-	-	-	-	...						
...	49 N	18 W	29.12	SW	4-5	-	-	-	-	-	...						
...	49 N	15 W	29.20	SW	4-5	-	-	-	-	-	...						
...	49 N	13 W	29.29	SW	4-5	-	-	-	-	-	...						
...	49 N	11 W	29.31	SW	4-5	-	-	-	-	-	...						
...	49 N	10 W	29.31	SW	4-5	-	-	-	-	-	...						
...	49 N	9 W	29.35	SW	4-5	-	-	-	-	-	...						

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\* Information for these columns is not usually received.

† The figures in the "wet bulb" column represent the relative humidity.

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METEOROLOGICAL OFFICE,  
63, VICTORIA STREET, S.W.

W. N. SHAW, (Director.)



Time.	Rainfall Inch.
8	-
9	-
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RAIN.	Ins.	Measured
-	-	7.30 s. 10
-	0.08	0.43
-	-	0.20
-	-	-
-	-	0.16

Port	Weather
3-9	1
5-9	1
6-7	1
6-7	1
7-5	0
7-5	0

9	0
8	0
7	0
6	0
5	0
4	0
3	0
2	0
1	0
0	0



# ADDITIONS AND CORRECTIONS TO THE

## 1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

DATE.	STATIONS.	YESTERDAY EVENING.					THIS MORNING.										PAST 24 HOURS.				
		BAROM.		TEMP.		Weather.	BAROMETR.		TEMPERATURE.		WIND.		Weather.	Sea (0 to 9).	TEMP.		Weather.	Sun. shine.	Rainfall.		
		At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12).		At 32° Fahr. and M.S.L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.			Force (0 to 12).	Max.				Min.	
Ins.	"					Ins.	Ins.	"	"	"							Hours.	Ins.			
1 <sup>st</sup>	Corunna.	30.02	52	W	1	r	30.12	-10	53	-	+6	WNW	3	r	8	57	747	-	0.32		
"	Lisbon.	30.19	51	NW	3	bc	30.21	+2.24	51	49	-1	NNW	2	e	-	57	48	-	-		
"	P. Delgada.	30.14	56	NNE	1	b	30.16	+1.14	57	51	-1	NE	2	o	-	63	54	-	-		
2 <sup>nd</sup>	Corunna.	30.21	54	W	1	r	30.21	+1.09	54	52	+1	W	1	o	8	57	53	-	0.08		
"	Lisbon.	30.26	53	N	1	b	30.28	+0.04	53	52	+2	SW	1	e	-	57	51	-	-		
"	P. Delgada.	30.16	57	NNE	1	b	30.18	-0.03	54	51	-3	NNE	2	b	2	63	54	-	-		
3 <sup>rd</sup>	Spurn Head.	29.94	40	SSE	6	r	29.03	-1.32	41	38	+1	W	10	cy	5	49	37	sm, rgn, cqd	0.45		
"	Cuxhaven.	29.22	40	S	2	o	29.56	-1.56	49	-	+10	SW	8	r	-	48	47	-	0.47		
"	Biarritz.	29.92	57	SW	5	o	29.61	-1.48	56	54	+1	SSW	3	o	8	57	46	-	-		
"	Belfort.	29.67	58	WSW	4	r	29.28	-1.44	50	43	+9	WSW	8	o	-	50	38	-	0.08		
"	Corunna.	30.22	55	WSW	3	o	29.97	-2.44	48	46	-6	WSW	3	r	-	59	46	-	0.20		
"	Lisbon.	30.22	55	WNW	3	o	30.06	-2.94	54	54	+1	W	4	o	-	59	53	-	-		
"	P. Delgada.	30.38	55	N	1	b	30.30	-1.13	57	52	+3	NNW	7	e	2	63	52	-	-		
4 <sup>th</sup>	The Scaw (Shagen).	29.25	41	SSW	9	o	29.83	-1.31	38	37	0	SW	7	e	3	43	36	-	0.16		
"	Fano.	29.48	43	WSW	9	bc	29.78	+2.26	41	39	+5	WSW	6	bc	-	43	36	-	0.04		
"	Lorient.	?	48	WNW	7	r	?	?	47	47	-2	W	7	r	8	48	45	-	0.28		
"	Corunna.	29.86	54	WNW	6	o	29.65	-3.21	50	48	+2	SW	1	r	8	54	48	-	0.32		
"	Lisbon.	30.04	53	NNW	2	o	29.99	-0.07	52	49	-1	WSW	2	o	-	61	52	-	0.04		
"	P. Delgada.	30.24	58	2	o	o	30.17	-1.13	59	56	+2	NW	2	o	2	62	57	-	-		
5 <sup>th</sup>	Belfort.	29.32	43	WSW	8	o	29.40	-1.18	38	-	-1	WSW	4	r	-	49	37	-	0.12		
6 <sup>th</sup>	Brussels.	?	52	SW	6	o	29.16	-0.05	40	-	+5	SW	4	o	-	43	35	-	0.04		
"	Biarritz.	29.62	52	SW	6	o	29.60	-0.01	52	-	+2	WNW	6	bc	?	55	48	-	0.08		
"	Belfort.	29.60	54	WSW	6	r	29.49	+0.09	45	-	+7	WSW	7	e	-	43	37	-	0.16		
"	Corunna.	29.67	51	SW	4	bc	29.69	-0.01	48	46	+2	WNW	9	r	6	57	45	-	0.39		
"	Lisbon.	29.84	59	N	4	o	29.97	+0.07	56	50	-3	NW	3	r	-	61	54	-	0.35		
"	P. Delgada.	30.05	60	W	3	r	30.06	0.00	60	57	-1	W	3	bc	3	63	59	-	0.43		
"	Corunna.	29.81	51	WSW	7	o	29.93	+2.44	48	46	0	SW	6	r	6	55	45	-	1.38		
"	P. Delgada.	30.10	60	S	4	b	30.09	+0.03	61	57	+1	S	4	e	4	63	59	-	-		
8 <sup>th</sup>	Spurn Head.	29.33	37	NW	5	s	29.76	+0.58	35	33	+4	NW	5	bc	4	40	30	sg, hpy, bc	0.26		
"	Belfort.	29.69	37	WSW	5	r	29.82	+1.18	32	32	-6	WSW	6	s	-	39	32	-	0.20		
"	Corunna.	30.04	50	WSW	6	o	30.24	+3.1	48	47	0	WNW	3	o	6	57	46	-	0.28		
"	Lisbon.	30.27	54	WNW	2	o	30.33	+1.16	53	51	-1	N	3	o	-	61	52	-	-		
"	P. Delgada.	30.03	62	3	4	b	30.08	-0.01	62	60	+1	S	4	bc	4	64	61	-	-		
"	Corunna.	30.34	53	NW	3	o	30.50	+1.26	43	41	-5	SW	1	bc	5	55	37	-	-		
"	P. Delgada.	30.06	63	S	6	e	30.03	-0.05	64	62	+2	S	6	o	6	64	62	-	-		
10 <sup>th</sup>	Frankfurt.	30.43	39	NW	2	bc	30.44	+0.01	38	-	-2	SW	3	e	-	43	34	-	-		
"	Lorient.	?	48	S	2	o	?	?	48	45	+9	S	2	o	1	50	39	-	-		
"	Biarritz.	30.54	37	ENE	3	b	30.49	+0.01	32	32	-6	E	2	o	2	50	32	-	-		
"	Nice.	30.08	42	2	o	b	30.13	+0.15	36	29	-6	NE	1	b	0	50	36	-	-		
"	Sanguinaire.	29.15	45	NNE	4	bc	30.11	+0.11	46	-	+1	E	2	m	5	52	39	-	-		
"	Corunna.	30.20	52	SW	1	b	30.16	-0.04	43	41	0	SSW	1	bc	1	54	39	-	-		
"	P. Delgada.	30.13	63	3	5	r	30.18	+0.15	62	62	-2	SW	4	m	5	64	61	-	0.20		
14 <sup>th</sup>	Corunna.	30.30	54	SSW	1	o	30.07	-3.9	59	48	+7	W	1	r	2	55	43	-	0.20		
"	P. Delgada.	30.30	59	N	1	b	30.28	+1.0	59	57	-3	2	o	3	64	57	-	-			
12 <sup>th</sup>	Brussels.	?	-	-	-	-	29.99	-1.14	31	-	0	NNE	1	o	-	37	27	-	-		
13 <sup>th</sup>	Brussels.	29.83	34	ENE	4	o	30.18	+1.19	30	30	-1	ENE	2	b	-	38	30	-	0.04		
"	Rochefort.	29.83	34	ENE	4	o	29.95	+1.15	32	31	-1	NE	3	b	-	45	32	-	-		
"	Lyon.	30.00	30	N	1	b	30.07	?	28	28	+1	NE	1	f	-	36	27	-	-		
"	Corunna.	?	54	?	3	n	29.93	-0.0	53	50	+1	NE	3	b	6	55	48	-	0.12		
"	P. Delgada.	30.12	60	SE	2	o	30.04	-1.15	61	59	+2	S	4	o	4	63	59	-	-		
14 <sup>th</sup>	Corunna.	29.99	52	NE	1	b	29.99	+0.06	44	39	-9	NE	1	bc	3	54	37	-	-		
"	Lisbon.	29.90	53	2	o	b	29.92	+0.01	50	39	-3	2	o	e	-	57	48	-	-		
"	P. Delgada.	29.91	62	3	4	bc	29.72	-3.1	62	60	+1	S	5	e	5	64	61	-	-		
15 <sup>th</sup>	Corunna.	29.99	54	NE	1	o	29.91	-0.08	39	37	-5	NNE	1	b	2	55	36	-	-		
"	Lisbon.	29.99	53	2	o	b	29.98	-0.04	49	49	-1	ENE	4	r	-	55	48	-	0.39		
"	P. Delgada.	29.87	63	SSE	5	o	29.25	-1.47	58	55	-4	SE	5	r	6	64	57	-	0.55		
16 <sup>th</sup>	Sanguinaire.	29.12	51	E	2	o	30.15	+0.07	51	48	+1	S	2	e	4	55	45	-	0.28		
"	Corunna.	29.92	55	NNE	1	b	29.95	+0.04	42	39	+3	NNE	1	bc	2	57	37	-	0.28		
"	Lisbon.	29.89	53	2	o	f	29.92	+0.04	57	55	+3	S	3	o	-	57	49	-	-		
"	P. Delgada.	29.30	61	SSW	4	bc	29.17	-0.08	61	56	-3	SSW	7	o	7	63	58	-	-		
17 <sup>th</sup>	Sanguinaire.	30.15	52	E	2	bc	30.08	-0.07	50	45	-1	E	2	b	3	61	45	-	-		
"	Corunna.	29.83	50	NNE	1	o	29.63	-0.32	53	49	+11	S	3	o	2	55	42	-	0.24		
"	Lisbon.	29.84	59	S	4	r	29.77	-0.15	61	60	-4	SSW	5	o	-	61	57	-	0.08		
"	P. Delgada.	29.23	62	SW	7	bc	29.27	+1.0	62	59	+1	WSW	5	o	6	63	55	-	0.12		
18 <sup>th</sup>	Corunna.	29.62	54	SSW	3	o	29.50	-1.13	55	54	-2	SSW	2	o	3	63	52	-	0.24		
"	Lisbon.	29.71	61	S	5	o	29.62	-1.15	60	58	-1	SSW	5	r	-						



## REPORTS FOR December, 1909.

4. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY. (CONT<sup>D</sup>).

DATE.	STATIONS.	YESTERDAY EVENING.						THIS MORNING.										PAST 24 HOURS.			
		BAROM.		TEMP.	WIND.		Weather.	BAROMETER.		TEMPERATURE.			WIND.		Weather.	Sea (0 to 9).	TEMP.		Weather.	Sun- shine.	Rainfall.
		At 8 <sup>h</sup> and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12).	At 8 <sup>h</sup> Fahr. and M.S.L.		Change since Yester- day.	Dry Bulb.	Wet Bulb.	Change since Yester- day.	Direc.	Force (0 to 12).	Max.			Min.				
		Ins.	"				Ins.	Ins.	"	"	"								Hours.	Ins.	
27 <sup>th</sup>	Corunna.	30.44	58	WNW	3	0	30.32	?	53	49	?	S	1	0	2	61	48	-	-	-	
28 <sup>th</sup>	P. Delgada.	29.92	63	SEW	2	0	29.97	-14	60	55	-2	WNW	6	6	63	57	-	-	-	0.08	
29 <sup>th</sup>	Corunna.	30.25	62	S	1	bc	30.21	-11	53	50	0	S	1	5	64	48	-	-	-	-	
30 <sup>th</sup>	P. Delgada.	30.11	59	S	1	bc	30.27	+06	45	43	-2	SSW	2	2	61	39	-	-	-	-	
31 <sup>st</sup>	Corunna.	30.26	56	NNE	1	b	30.28	.00	59	56	+6	S	0	2	61	53	-	-	-	-	
"	Corunna.	30.24	56	NE	2	0	30.29	+02	55	45	+10	NNE	2	3	56	43	-	-	-	-	
"	Lisbon.	30.14	52	NNE	5	b	30.21	+08	50	47	+2	NNE	4	3	57	48	-	-	-	-	
"	P. Delgada.	30.39	57	NE	1	bc	30.41	+13	55	52	-4	N	2	2	62	54	-	-	-	-	
"	Corunna.	30.32	54	NNE	3	b	30.41	+12	39	37	-16	NE	1	5	57	36	-	-	-	-	
"	P. Delgada.	30.48	58	NE	1	bc	30.48	+07	55	52	+3	NNE	3	3	57	54	-	-	-	-	
2. CORRECTIONS.																					
4 <sup>th</sup>	Valencia.	-	-	-	-	-	29.17	+11	41	41	-	-	-	-	-	-	-	-	2.1	-	
"	Donaghadee.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Scilly (S'Marys).	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.9	-	
7 <sup>th</sup>	Dover.	-	-	-	-	-	29.44	+04	-	32	-	-	-	-	-	-	-	-	-	-	
"	Reykjavik.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Sumburgh Head.	-	-	-	-	-	-	-	-	-	-	WSW	-	-	-	-	-	-	-	0.03	
"	Valencia.	-	-	-	-	-	-	-	-	-	-	-	-	-	63	-	-	-	-	-	
"	Dungeness.	-	-	-	-	-	29.43	.00	-	-	-	-	-	-	-	-	-	-	-	0.0	
3 <sup>rd</sup>	Dover.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4 <sup>th</sup>	Donaghadee.	-	-	-	-	-	-	-	-	39	-	-	-	-	-	-	-	-	-	-	
"	Scilly (S'Marys).	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Aberdeen.	29.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5 <sup>th</sup>	Scilly (S'Marys).	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13	
6 <sup>th</sup>	Holyhead.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain	
8 <sup>th</sup>	Spurn Head.	-	-	-	-	-	-	-	-	-	-	S	-	-	-	-	-	-	-	-	
"	Blacksoil Pt.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Holyhead.	29.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Scilly (S'Marys).	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.30	
"	Dover.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9 <sup>th</sup>	London.	-	-	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	London.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10 <sup>th</sup>	Lisbon.	30.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Donaghadee.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11 <sup>th</sup>	Oxford.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12 <sup>th</sup>	Scilly (S'Marys).	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.46	
13 <sup>th</sup>	London.	-	-	-	-	-	30.19	+19	-	-	-	-	-	-	-	-	-	-	-	0.3	
14 <sup>th</sup>	Sumburgh Head.	-	-	-	-	-	-	-	-	-	-	WSW	-	-	-	-	-	-	-	-	
"	Spurn Head.	-	-	-	-	-	30.51	-	-	-	-	-	-	-	-	-	-	-	-	-	
15 <sup>th</sup>	Blacksoil Pt.	-	-	-	-	-	30.47	.00	-	-	-	-	-	-	-	-	-	-	-	-	
16 <sup>th</sup>	Liverpool Obsy.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Donaghadee.	-	-	-	-	-	30.29	-26	-	-	-	-	-	-	-	-	-	-	-	-	
"	Bath.	30.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
17 <sup>th</sup>	Nice.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	
"	North Shields.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Spurn Head.	30.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18 <sup>th</sup>	Bath.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45	
"	Blacksoil Pt.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	North Shields.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	
19 <sup>th</sup>	Spurn Head.	-	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Scilly (S'Marys).	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 <sup>th</sup>	Wick.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20	
"	Dover.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Aberdeen.	-	-	-	-	-	-	-	23	23	-12	-	-	-	-	-	-	-	-	-	
21 <sup>st</sup>	Malin Head.	-	-	-	-	-	-	-	-	27	-	-	-	-	-	-	-	-	-	-	
"	Naom.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22 <sup>nd</sup>	Valencia.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	
"	Roche's Point.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	
"	Dungeness.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
23 <sup>rd</sup>	Dover.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Dungeness.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Dover.	-	-	-	-	-	-	-	-	49	-	-	-	-	-	-	-	-	-	-	
24 <sup>th</sup>	North Shields.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
26 <sup>th</sup>	Sumburgh Head.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	
"	Spurn Head.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
27 <sup>th</sup>	Birr Castle.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	
28 <sup>th</sup>	Stornoway.	-	-	-	-	-	-	-	-	43	43	+11	-	-	-	-	-	-	-	-	
"	Birr Castle.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	Jersey (S'Aubins).	-	-	-	-	-	29.87	-07	-	-	-	-	-	-	-	-	-	-	-	0.38	
"	Dungeness.	-	-	-	-	-	29.64	-	51	50	+4	-	-	-	-	-	-	-	-	-	
29 <sup>th</sup>	North Shields.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	
"	Holyhead.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	
"	Scilly (S'Marys).	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
30 <sup>th</sup>	Spurn Head.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	London.	-	-	-	-	-	30.40	+37	-	-	-	-	-	-	-	-	-	-	-	-	
31 <sup>st</sup>	Dungeness.	-	-	-	-	-	-	-	45	44	-	-	-	-	-	-	-	-	-	-	
"	Dover.	-	-	-	-	-	30.24	-17	-	-	-	-	-	-	-	-	-	-	-	-	



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# WIRELESS TELEGRAMS.

ADDITIONS AND CORRECTIONS.— Decr., 1909.

Date of Report in which Observations appeared.	Ship and Hour of Observation.	Position.		Reading of Barometer.	Wind.		Weather.	TEMPERATURE.			Sea Dis- tur- bance
		Lat.	Long.		Direc.	Force.		Air.		Sea.	
								Dry Bulb.	Wet Bulb.		
		o	o	Ins.				o	o	o	
ADDITIONS.											
December 10 <sup>th</sup>	Empress of Britain.	Dec. 8 <sup>th</sup> 4am	51 N	31 W	29.63	SE	6-7	-	-	-	-
		- 7am	51 N	30 W	29.65	SE	4-5	m	-	-	-
CORRECTIONS.											
December 6 <sup>th</sup>	Finland.	Dec. 6 7am	-	-	29.08	-	-	-	-	-	-
" 7 <sup>th</sup>	Lake Michigan.	- 9.4am	-	14 W	-	-	-	-	-	-	-
" 12 <sup>th</sup>	Minneapolis.	- 11.7am	-	-	29.56	-	-	-	-	-	-
" "	Baltic.	- 11.6pm	-	-	29.60	WSEW	8-9	m	-	-	-
" 15 <sup>th</sup>	Philadelphia.	{ - 13.4am	50 N	17 W	29.93	2	0	-	-	-	-
" "	"	{ - 7am	50 N	18 W	29.93	SE	1-3	m	-	-	-
" "	Zeland.	- 14.7am	-	-	-	SE	4-5	-	-	-	-
" 20 <sup>th</sup>	Lusitania.	- 10.3pm	-	-	29.57	-	-	-	-	-	-
" 23 <sup>rd</sup>	St Paul.	{ - 20.4am	-	-	-	E	6-7	-	-	-	-
" "	"	{ - 7am	-	-	-	E	6-7	-	-	-	-
" "	Lusitania.	- 20.7am	-	-	29.67	SE	-	-	-	-	-
" 27 <sup>th</sup>	New York.	- 25.7am	-	25 W	-	-	-	-	-	-	-
" "	Minnewaska.	- 26.4am	-	18 W	-	-	-	-	-	-	-
" 28 <sup>th</sup>	Umbria.	- 27.7am	-	-	29.42	SE	4-5	-	-	-	-
" 29 <sup>th</sup>	Minnewaska.	- 27.7am	-	-	29.39	-	-	-	-	-	-

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